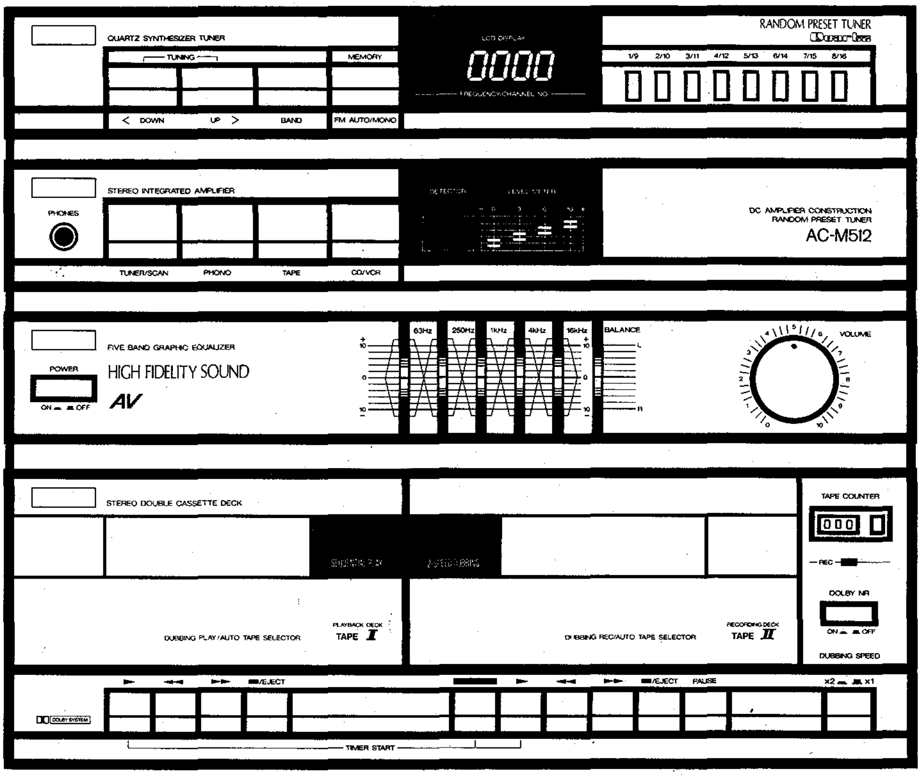
AKAI SERVICE MANUAL


QUARTZ SYNTHESIZER TUNER
TUNING
MEMORY
< DOWN
UP >
BAND
FM AUTO/MONO
LCD DISPLAY
0000
FREQUENCY/CHANNEL NO.
RANDOM PRESET TUNER
1/9
2/10
3/11
4/12
5/13
6/14
7/15
8/16
STEREO INTEGRATED AMPLIFIER
PHONES
TUNER/SCAN
PHONO
TAPE
CD/VCR
DC AMPLIFIER CONSTRUCTION
RANDOM PRESET TUNER
AC-M512
FIVE BAND GRAPHIC EQUALIZER
POWER
ON ▬ ▀ OFF
HIGH FIDELITY SOUND
AV
63Hz
250Hz
1kHz
4kHz
16kHz
BALANCE
VOLUME
STEREO DOUBLE CASSETTE DECK
TAPE COUNTER
000
REC
DOLBY NR
ON ▬ ▀ OFF
DUBBING SPEED
DUBBING PLAY/AUTO TAPE SELECTOR
PLAYBACK DECK
TAPE I
DUBBING REC/AUTO TAPE SELECTOR
RECORDING DECK
TAPE II
/EJECT
PAUSE
x2 ▬ ▀ x1
DOLBY SYSTEM
TIMER START

MODEL AC-M512

MIDI COMPONENT SYSTEM

MODEL AC-M312/L
MODEL AC-M512/L

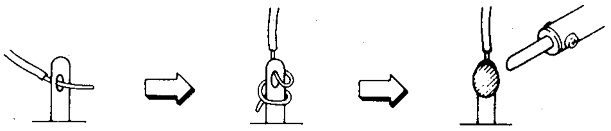
COMPONENT

MODEL AC-A510/L

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol parts are critical for safety. Replace only with parts number specified..
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locatoins.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

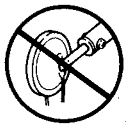
Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for C or A, specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

PRECAUTIONS FOR LITHIUM BATTERY

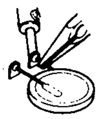
The lithium battery may explode when heated excessively.

[OBSERVE THE FOLLOWING WHEN REPLACING]

- Replace with the same make and type only.
- Use soldering iron in "recommended way" only.
- Place battery in correct polarity.
- Do not short the terminals.
- Do not recharge battery.
- Do not dispose of battery in fire.



[DANGER]



[RECOMMENDED WAY]

★INFORMATION

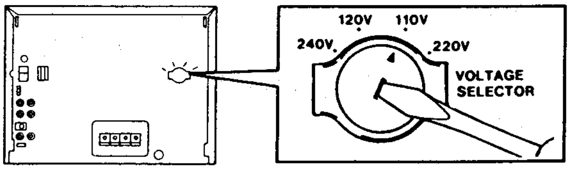
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

VOLTAGE CONVERSION (U Model only)

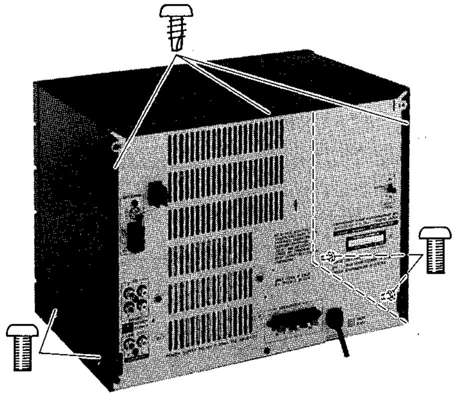
Before connecting the power cord. SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



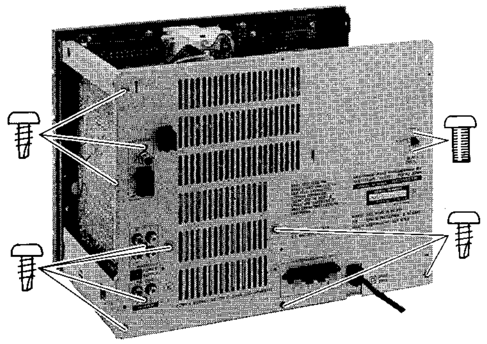
II. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

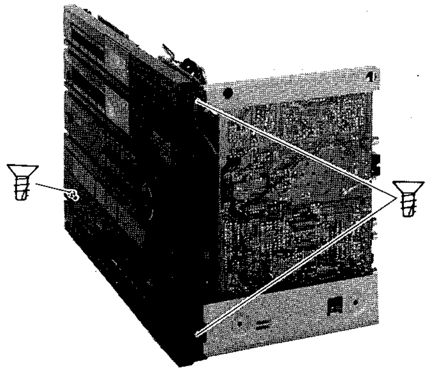
1 Removal of Upper Cover



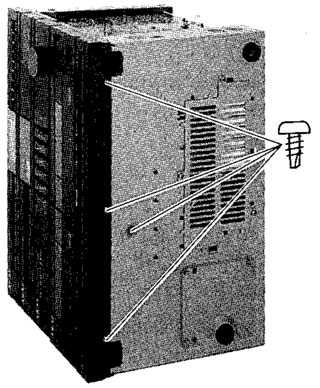
2 Removal of Rear Panel



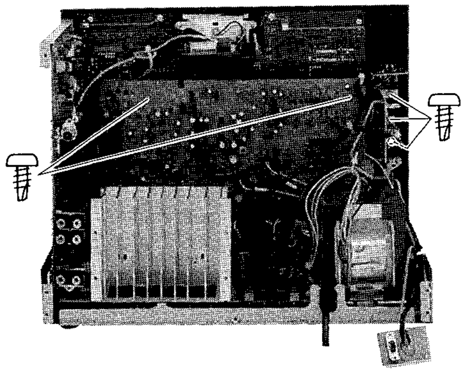
3 Removal of Front Panel BLK.



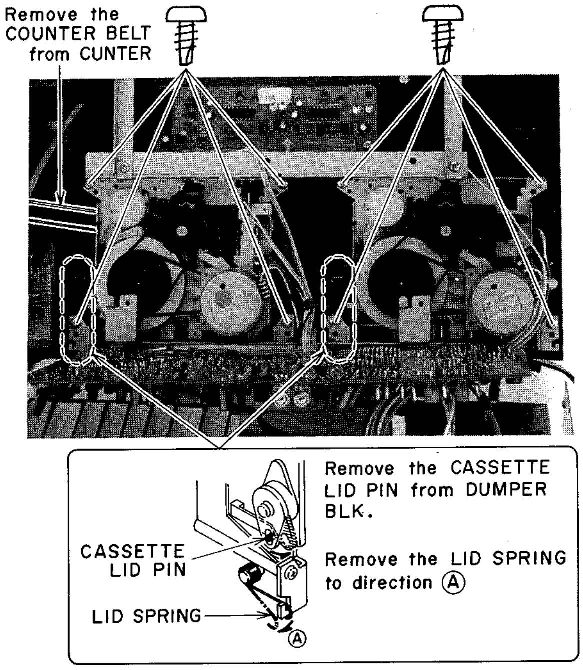
4



5 Removal of Deck PCB, Head Phone PCB. and Power SW PCB.



6 Removal of Mecha BLK



Remove the COUNTER BELT from CUNTER

Remove the CASSETTE LID PIN from DUMPER BLK.

Remove the LID SPRING to direction Ⓐ

I. SPECIFICATIONS

Amplifier Section

MODEL	AC-M512/L	AC-M312/L	AC-A510/L
Power output (8 ohms)			
Rated (40 Hz to 20 kHz)	50W/0.3%	40W/0.3%	50W/0.3%
By FTC (40 Hz to 20 kHz)	50W/0.3%	40W/0.3%	50W/0.3%
By F. Norm (63 Hz to 12.5 kHz)	55W	40W	55W
By DIN (1 kHz)	55W	45W	55W
Music power (Both channels)	250W	190W	250W
Power bandwidth (IHF, –3 dB, 8 ohms)	10 Hz to 60 kHz (0.5%)	10 Hz to 50 kHz (0.5%)	(10 Hz to 40 kHz (0.5%)
S/N (IHF-A) PHONO	72 dB		
CD	90 dB		
Channel Separation (1 kHz)	55 dB		
Damping factor (1 kHz, 8 ohms)	30		
Imput sensitivity/Impedance			
PHONO	4.5 mV / 47 kohms		
CD	300 mV / 47 kohms		
Frequency response			
PHONO (RIAA, Deviation)	±0.5 dB		
CD	5 Hz to 50 kHz –3 dB		
Graphic equalizer control			
Type	5 bands		
Center frequency	63 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz		
Control range	±8 dB		

Tuner Section

ALL MODELS

FM tuner section	
Tuning frequency range	87.5 MHz to 108.0 MHz
Usable sensitivity	12.7 dBf
Quieting sensitivity	19.2 dBf (Mono)
(S/N = 50 dB)	40.2 dBf (Stereo)
Capture ratio	2.0 dB
Selectivity (400 kHz)	60 dB
Image rejection ratio	50 dB
IF rejection ratio	80 dB
Suprious rejection ratio	80 dB
AM suppression	50 dB
Sub carrier suppression ratio	55 dB
S/N	70 dB (Mono), 60 dB (Stereo)
T.H.D	0.2% (Mono), 0.4% (Stereo)
Stereo separation (1 kHz)	40 dB
Frequency response	30 Hz to 15 kHz ±1.0 dB

AM tuner section	
MW	
Tuning frequency range	531 kHz to 1,602 kHz
Usable sensitivity (Loop antenna)	300 μV
Selectivity	25 dB
Image rejection ratio	40 dB
IF rejection ratio	45 dB
S/N	40 dB
T.H.D.	1.0%
LW	
Tuning frequency range	146 kHz to 353 kHz
Usable sensitivity (Loop antenna)	800 μV
Selectivity	30 dB
Image rejection ratio	40 dB
IF rejection ratio	45 dB
S/N	35 dB
T.H.D.	2.0%

Deck Section

ALL MODEL

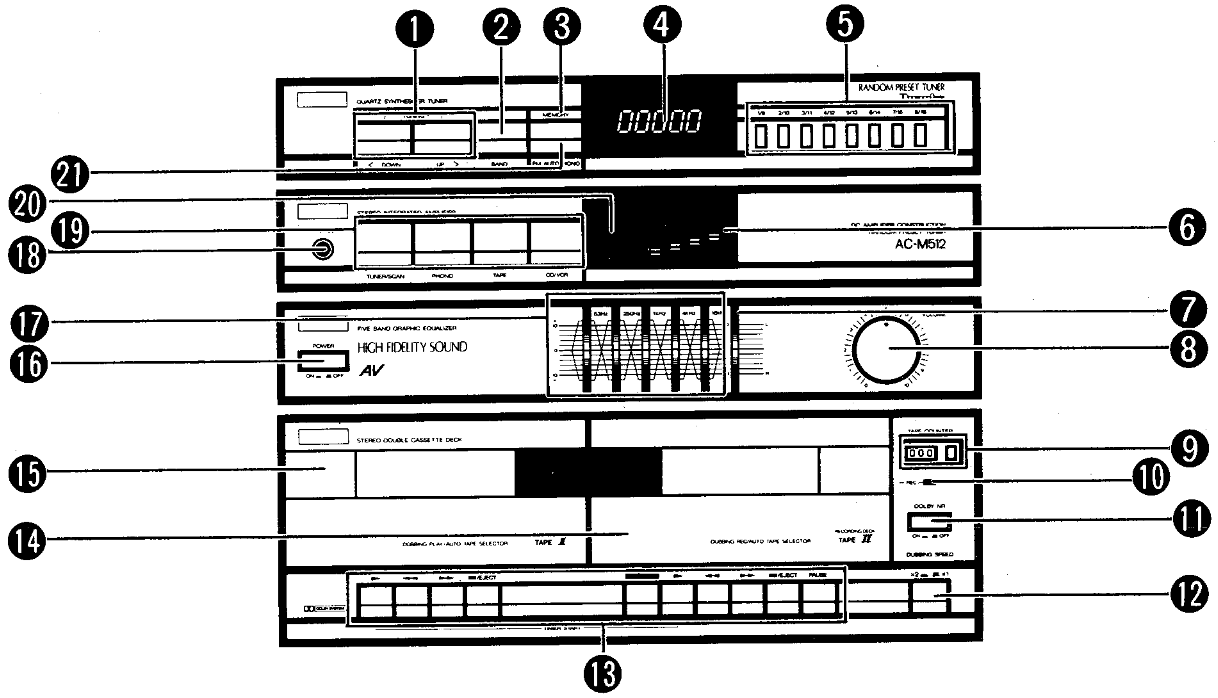
Heads TAPE I TAPE II	HD Head for Play back × 1 HD Head for Recording/Play back × 1 Erase Head × 1
Motors TAPE I	Electronically Speed Controlled DC Motor × 1
TAPE II	Electronically Speed Controlled DC Motor × 1
Frequency Response	
Normal	30 Hz to 15 kHz ±3 dB
CrO_2	30 Hz to 15 kHz ±3 dB
Metal	30 Hz to 16 kHz ±3 dB
S/N	56 dB
Harmonic Distortion	0.8%

Dimensions and Weight

AC-M512/L	AC-M312/L	AC-A510/L
350 (W) × 263 (H) × 235 (D) mm	350 (W) × 263 (H) × 235 (D) mm	425 (W) × 263 (H) × 246 (D) mm
8.0 kg	7.1 kg	8.2 kg

III. CONTROLS

AC-M312/L, AC-M512/L



① **TUNING DOWN (<)/UP (>) control**
To tune in a station manually.

② **BAND selector button**
To select the band.

③ **MEMORY button**
To memorize preset stations.

④ **LC (Liquid Crystal) Display**
Shows the tuning information.

⑤ **PRESET STATION buttons (1 to 16)**
To memorize preset stations and tune in memorized stations.

⑥ **LED LEVEL meter**
Indicates the left channel volume level.

⑦ **BALANCE control**
To adjust the left and right channel balance.

⑧ **VOLUME control**
To adjust the volume level.

⑨ **TAPE COUNTER and Reset button for TAPE II Deck**
Shows tape running numerical index for TAPE II deck.

⑩ **REC indicator**
Shows that TAPE II deck is in recording mode.

⑪ **DOLBY NR switch**
To turn on and off the DOLBY NR system.

⑫ **DUBBING SPEED Selector (AC-M512/L only)**
To select the tape dubbing speed.

⑬ **TAPE I and II Operation buttons**
Play (▶), Rewind (◀◀), Fast forward (▶▶) and Stop (■)/EJECT buttons. One touch REC and PAUSE buttons (TAPE II only)

⑭ **TAPE II cassette lid and holder**
To load a tape for recording and playback.

⑮ **TAPE I cassette lid and holder**
To load a tape for playback.

⑯ **POWER switch**
To turn on and off all the Akai Stereo System Components.

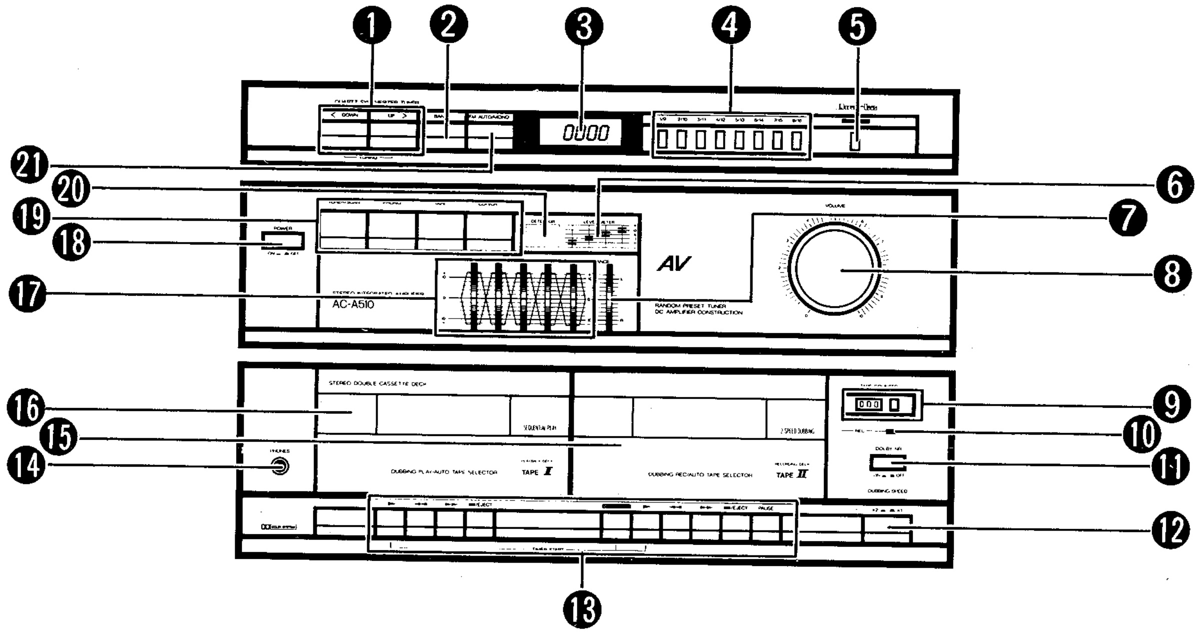
⑰ **GRAPHIC EQUALIZER controls**
To finely adjust the frequency levels between 63 Hz and 16 kHz during playback and recording operations (except tape dubbing).

⑱ **Headphones (PHONES) jack**
For headphone listening.

⑲ **Input source selectors and indicators (TUNER/SCAN, PHONO, TAPE and CD/VCR)**
To select an audio source or a preset station you want to listen to.

⑳ **REMOTE CONTROL Receiver window (AC-M512/L only)**
To receive a remote control signal from the standard accessory remote control unit.

㉑ **FM AUTO/MONO selector**
To select the FM AUTO or MONO mode.



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To finely adjust the frequency levels between 63 Hz and 16 kHz during playback and recording operations (except tape dubbing).

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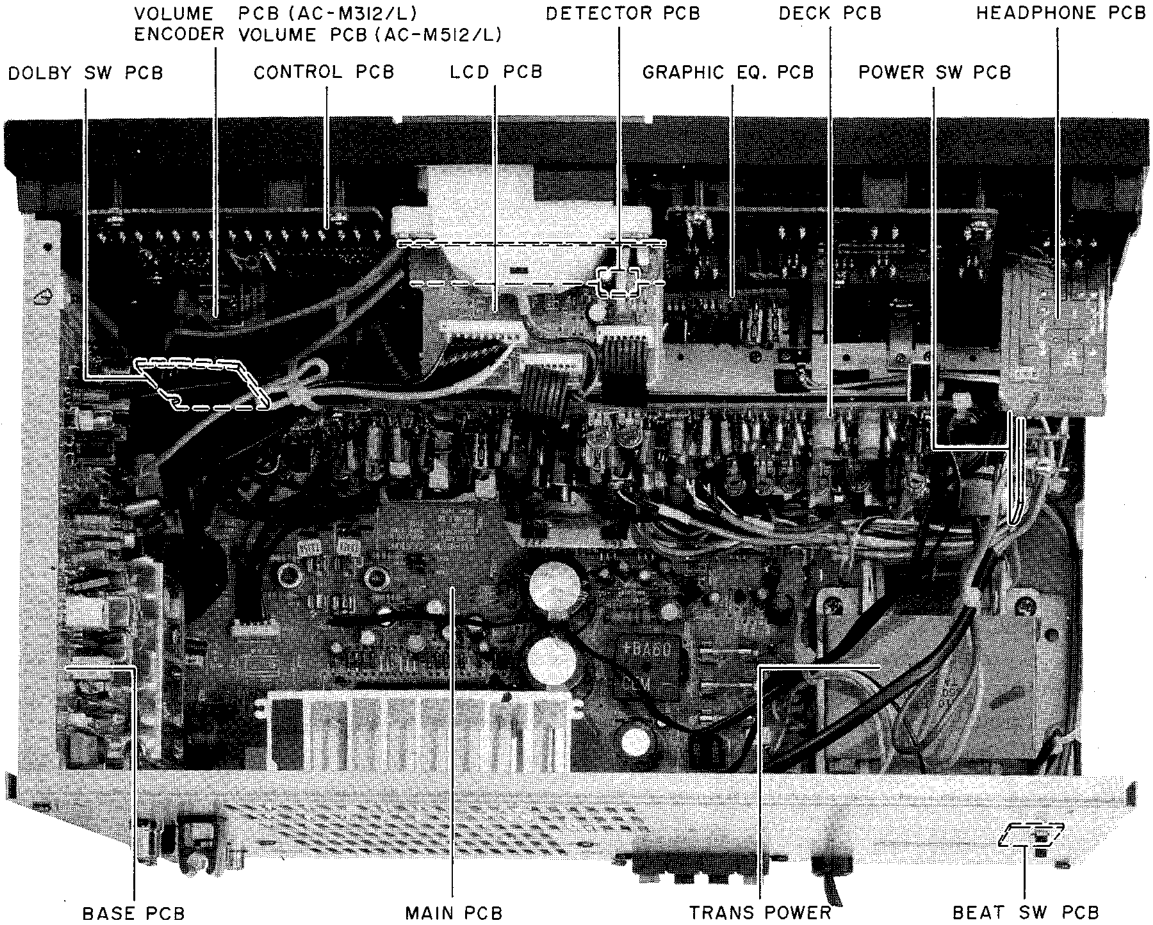
To receive a remote control signal from the standard accessory remote control unit.

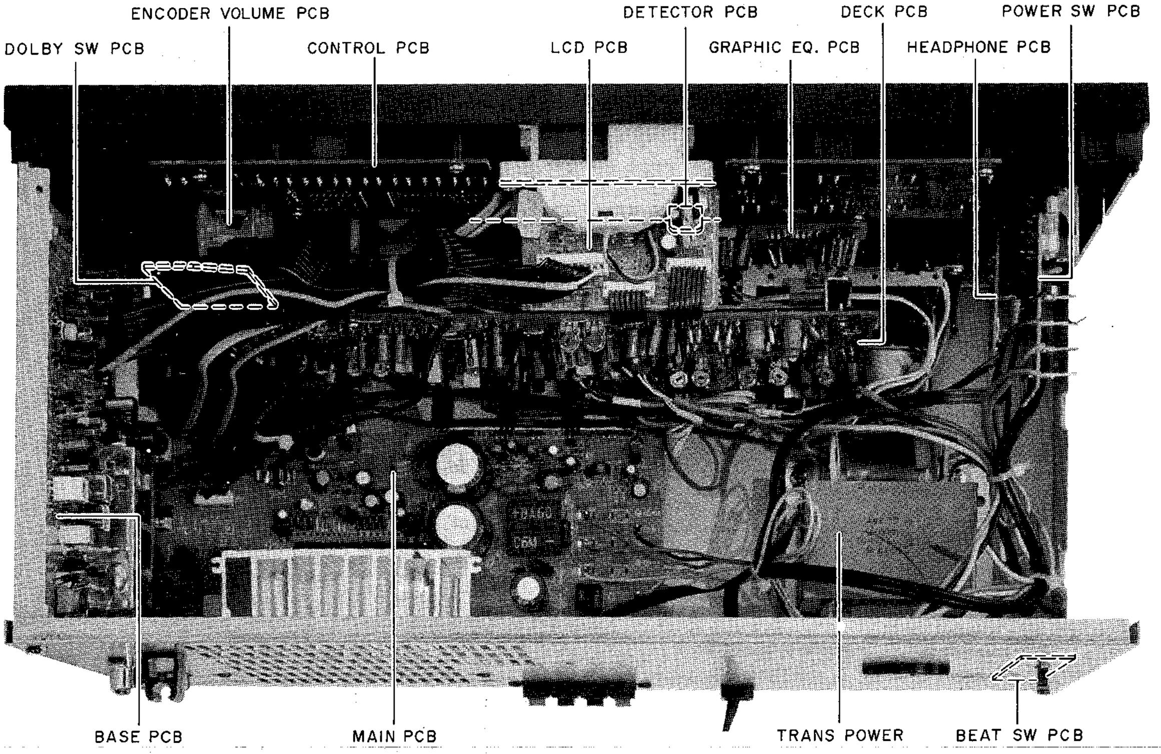
㉑ **FM AUTO/MONO selector**
To select the FM AUTO or MONO mode.

IV. PRINCIPAL PARTS LOCATION

AC-M312/L, AC-M512/L


VOLUME PCB (AC-M312/L)
ENCODER VOLUME PCB (AC-M512/L)
DETECTOR PCB
DECK PCB
HEADPHONE PCB
DOLBY SW PCB
CONTROL PCB
LCD PCB
GRAPHIC EQ. PCB
POWER SW PCB
BASE PCB
MAIN PCB
TRANS POWER
BEAT SW PCB

AC-A510/L


ENCODER VOLUME PCB
DETECTOR PCB
DECK PCB
POWER SW PCB
DOLBY SW PCB
CONTROL PCB
LCD PCB
GRAPHIC EQ. PCB
HEADPHONE PCB
BASE PCB
MAIN PCB
TRANS POWER
BEAT SW PCB

V. ADJUSTMENT

i) ·PINCH ROLLER PRESSURE MEASUREMENT

Put in PLAY mode. Push pinch roller arm down with the spring gauge, push the pinch Roller 1 to 2 mm away from the Capstan and release slowly.
Read the spring gauge at the moment the pinch roller touches the capstan and begins to rotate Specified contact pressure measurement of 150 to 300 grm. If these is no measurement obtained, replace the pinch roller spring.

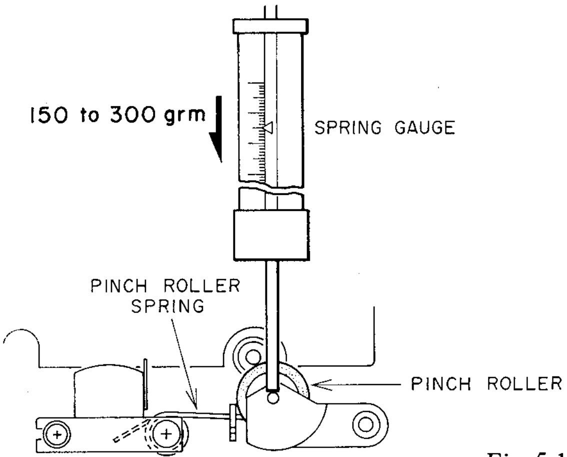

150 to 300 grm
SPRING GAUGE
PINCH ROLLER SPRING
PINCH ROLLER

Fig. 5-1

ii) WINDING TORQUE MEASUREMENT IN EACH MODE

Insert cassette torque meter (AJ-751179) and measure in each mode. For Fast Forward and Rewind, measure at the end of tape when the tape has stopped running.

PLAY Mode

Tape up Torque:	35 to 75 grm-cm
Back tension torque:	1.5 to 4.5 grm-cm

FAST FORWARD, REWIND mode

Tape up Torque:	70 to 160 grm-cm

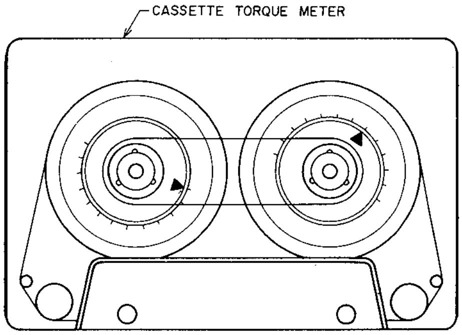

CASSETTE TORQUE METER

Fig. 5-2

5-2. INSTRUMENT CONNECTIONS

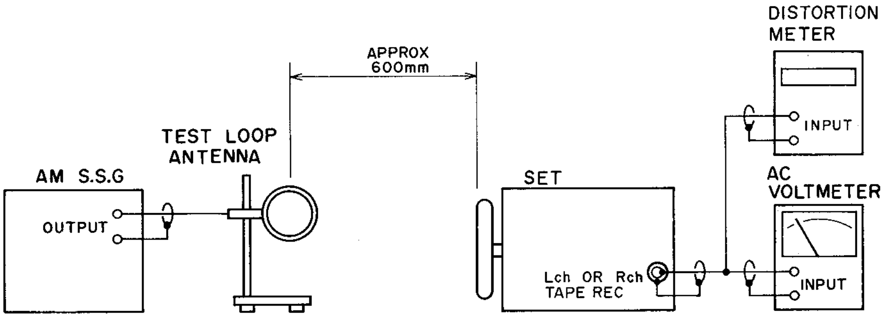

APPROX 600mm
TEST LOOP ANTENNA
AM S.S.G
OUTPUT
SET
Lch OR Rch
TAPE REC
DISTORTION METER
INPUT
AC VOLTMETER
INPUT

Fig. 5-3 Instrument Connections for AM (MW, LW) Section Adjustment

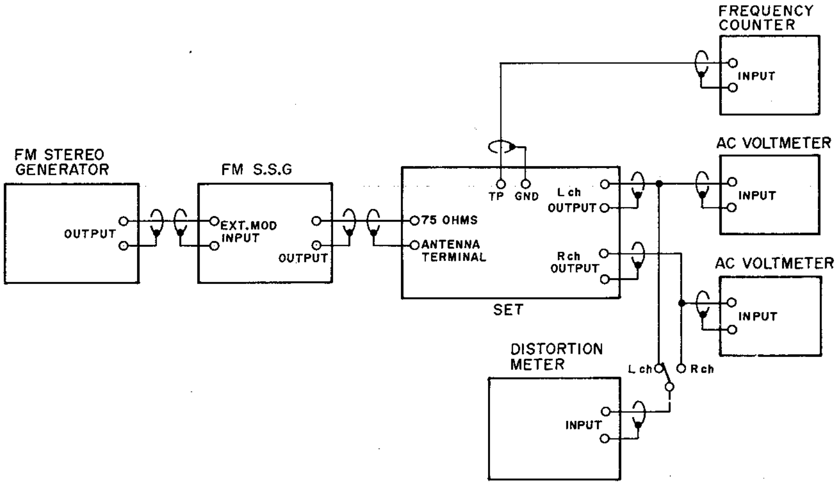

FREQUENCY COUNTER
INPUT
AC VOLTMETER
INPUT
AC VOLTMETER
INPUT
FM STEREO GENERATOR
OUTPUT
FM S.S.G
EXT.MOD INPUT
OUTPUT
TP
GND
Lch OUTPUT
75 OHMS
ANTENNA TERMINAL
Rch OUTPUT
SET
DISTORTION METER
INPUT
Lch
Rch

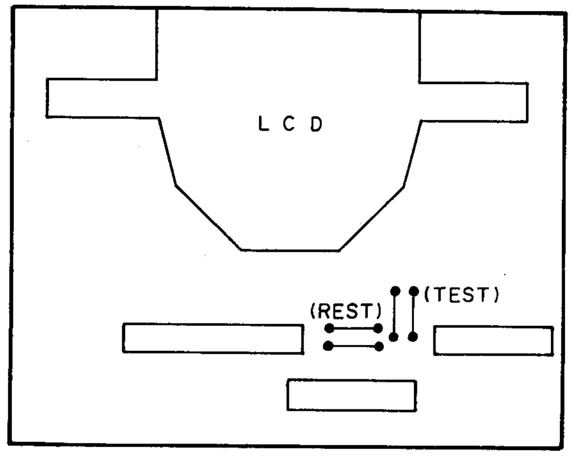
Fig. 5-4 Instrument Connection for FM Section Adjustment

5-3. TUNER ADJUSTMENT

Step Adjustment Item
1. SSG FREQ. & ATT.
2. SET Tuning FREQ.
3. Test Point & Adj. Part → ADJ. Part, Test Point
4. Result & Remarks

* HOW TO CALL THE PRESET FREQUENCY FOR THE TUNER ADJUSTMENT.
Short-circuit momentarily two test points shown Fig. 5-6. The select required test frequency by pushing one of the preset station button according to Fig. 5-6.
When the Tuner Adjustments are finished, reset the Preset frequency.
Short-circuit momentarily reset test point shown Fig. 5-6.

	A, C, Y, U 10 kHz STP	E, V, B, S, U 9 kHz STP	L MODEL
1ch	FM 88.00MHz	FM 88.00MHz	FM 88.00MHz
2ch	FM 90.00MHz	FM 90.00MHz	FM 90.00MHz
3ch	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
4ch	FM 100.00MHz	FM 100.00MHz	FM 100.00MHz
5ch	FM 106.00MHz	FM 106.00MHz	FM 106.00MHz
6ch	FM 108.00MHz	FM 108.00MHz	FM 108.00MHz
7ch	FM 95.70MHz	FM 95.75MHz	LW 160kHz
8ch	FM 107.70MHz	FM 107.75MHz	LW 300kHz
9ch	MW 530kHz	MW 531kHz	FM 95.75MHz
10ch	MW 600kHz	MW 603kHz	MW 603kHz
11ch	MW 1000kHz	MW 999kHz	MW 999kHz
12ch	MW 1400kHz	MW 1404kHz	MW 1404kHz
13ch	MW 800kHz	MW 801kHz	MW 801kHz
14ch	MW 1300kHz	MW 1305kHz	MW 1305kHz
15ch	MW 1610kHz	MW 1602kHz	LW 200kHz
16ch	MW 1200kHz	MW 1197kHz	LW 350kHz



LCD PCB

Fig. 5-6

MW

4 AM IF
1. 999 (1000) kHz, 74dBμ
2. 999 (1000) kHz
3. TUNER OUT. T1
4. Maximum output
   * Less than 2.5% distortion factor.

2 MW LOW RANGE SENSITIVITY
1. 603 (600) kHz, 60dBμ
2. 603 (600) kHz
3. TUNER OUT. T2
4. Within 10% distortion factor.

3 MW HIGH RANGE SENSITIVITY
1. 1404 (1400) kHz, 60dBμ
2. 1404 (1400) kHz
3. TUNER OUT. VC1
4. Within 10% distortion factor.
   * For best result, repeat steps 2 and 3, two or three times.

1 MW TUNING VOLTAGE
1. No signal input
2. 1404 (1400) kHz
3. Connect the DC Voltmeter between TP1 and gnd. T4
4. 6.7 ± 0.1V

NOTES:
1. Set the S.S.G. to 30% 1kHz of each.
2. Confirm that the sensitivity margin between Low and High Range sensitivities is within 6dBμ, otherwise readjust Low and High Range sensitivity.
3. (kHz) in result & Remarks indicates the test frequencies is AM 10kHz STEP area.

LW

2 LW LOW RANGE SENSITIVITY
1. 160kHz, 68dBμ
2. 160kHz
3. TUNER OUT. T3
4. Within 10% distortion factor.

3 LW HIGH RANGE SENSITIVITY
1. 300kHz, 68dBμ
2. 300kHz
3. TUNER OUT. VC2
4. Within 10% distortion factor.
   * For best result, repest steps 2 and 3, two or three times.

1 LW TUNING VOLTAGE
1. No signal input
2. 350kHz
3. Connect the DC Voltmeter between TP1L and GND. T5
4. 7.5 ± 0.1V

NOTES:
1. Set the SSG to 30%, 1kHz of each.
2. Confirm that the sensitivity margin between Low and High Range sensitivities is within 6dBμ, otherwise readjust Low and High Range sensitivity.

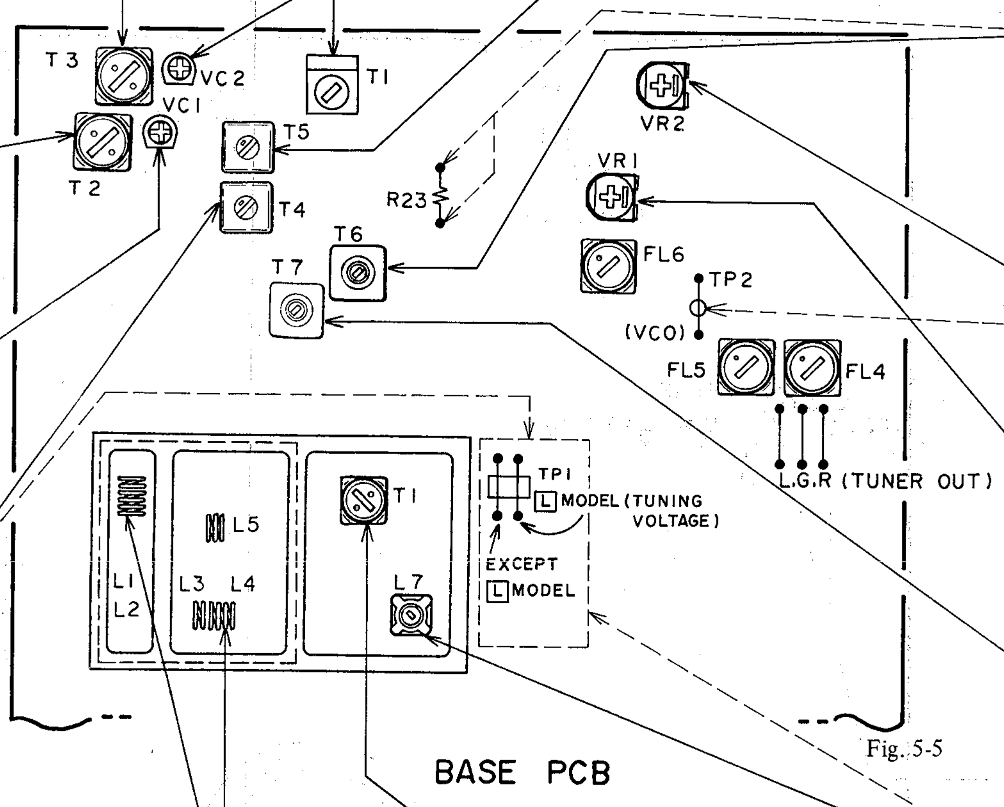


Fig. 5-5

4 FM CENTER VOLTAGE
1. No signal input
2. Tunes only noise without interference from Broadcasting.
3. Connect the DC Voltmeter between both end of R23, T6
4. 0V

6 MPX FREE RUNNING FREQUENCY
1.
2.
3. Connect a Frequency counter to TP2 and GND, VR2.
3. 38kHz ± 200Hz

7 STEREO SEPARATION
1. 98MHz (Stereo) L ch (R ch) 60dBμ
2. 98MHz
3. TUNER OUT. VR1
4. Minimum output of R ch (L ch)

FM

2 FM LOW RANGE SENSITIVITY
1. 90MHz (Mono), 8dBμ, 12dBμ V
2. 90MHz (Mono
3. TUNER OUT. L2, L4
4.
   * See Note 4.
   * Within 3% distortion factor.

8 DISTORTION (STEREO)
1. 98MHz (Stereo), 60dBμ
2. 98MHz
3. TUNER OUT. T1
4. Less than 0.8% (Both channel)
   * See Note 2.

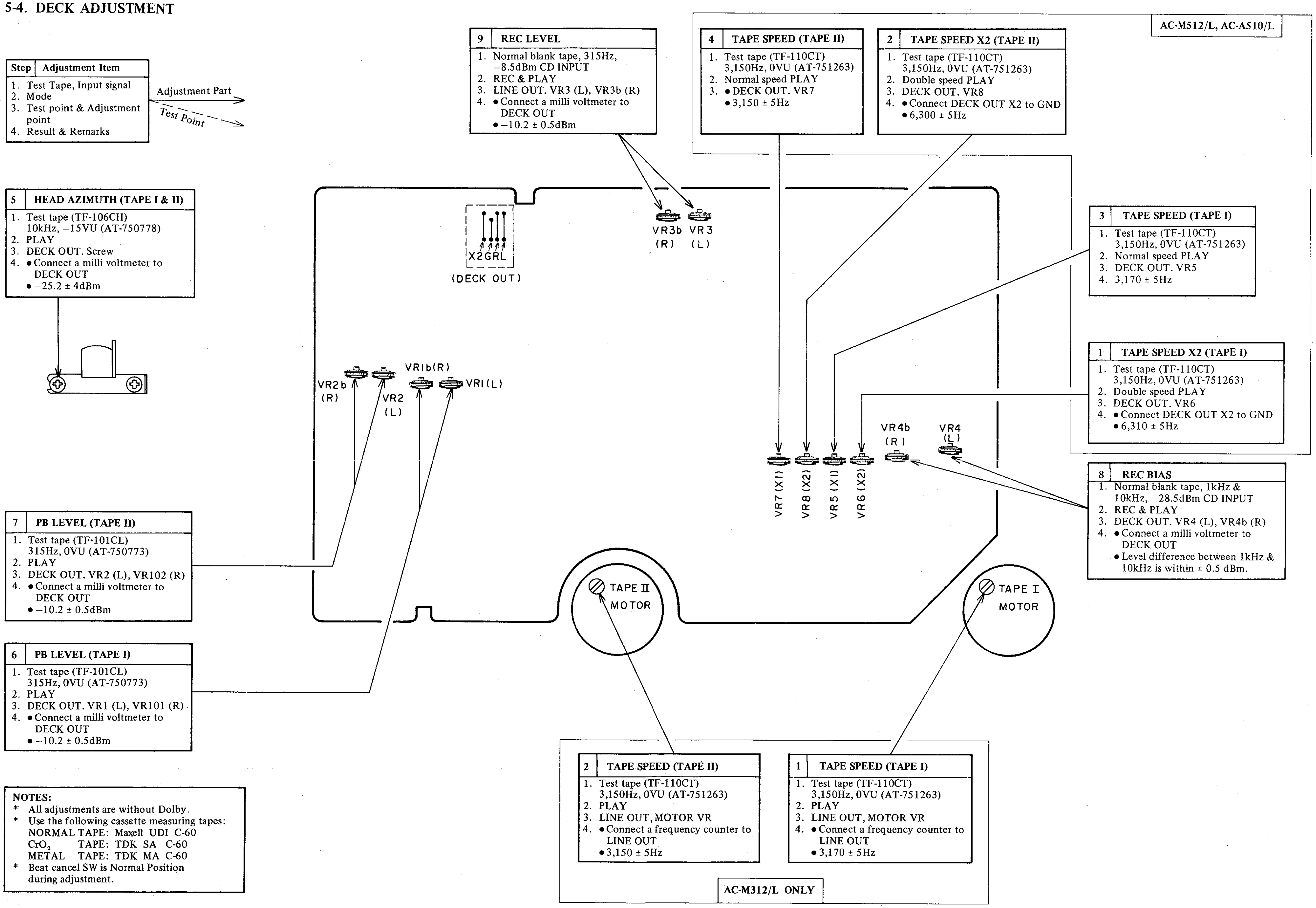
3 FM HIGH RANGE SENSITIVITY
1. 108MHz (Mono), 8dBμ, 12dBμ V
2. 108MHz (Mono)
3. TUNER OUT. L2, L4
4.
   * See Note 4.
   * Within 3% distortion factor.
* For best result, repeat steps 2 and 3 two or three times.

1 FM TUNING VOLTAGE
1. No signal input
2. 87.8MHz
3. Connect the DC Voltmeter between TP1 and GND. L7
4. 3.5 ± 0.1V

5 DISTORTION FACTOR (MONO)
1. 98.0MHz (Mono), 60dBμ
2. 98.0MHz
3. TUNER OUT. T7
4. Less than 0.3%
* For best result, repeat steps 4 and 5, two or three times.

NOTES:
1. Set the SSG to 75kHz deviation, 1kHz for C, A, U, S modes, 40kHz deviation, 1kHz for B, E, V models.
2. Readjust step 2 to step 5, in case T1 is turned more than a quarter turn obtaining the proper distortion (STEREO).
3. Confirm that the sensitivity margin between Low and High Range sensitivities is within 3dB, otherwise readjust low and High Range sensitivity.
4. In step 2, 3 normally confirmation only, except waved coil by mistake.
5. 0dBμ = 1μV.

5-4. DECK ADJUSTMENT



Step	Adjustment Item
	1. Test Tape, Input signal 2. Mode 3. Test point & Adjustment point 4. Result & Remarks

5 HEAD AZIMUTH (TAPE I & II)
1. Test tape (TF-106CH) 10kHz, −15VU (AT-750778)
2. PLAY
3. DECK OUT. Screw
4. • Connect a milli voltmeter to DECK OUT
   • −25.2 ± 4dBm

9 REC LEVEL
1. Normal blank tape, 315Hz, −8.5dBm CD INPUT
2. REC & PLAY
3. LINE OUT. VR3 (L), VR3b (R)
4. • Connect a milli voltmeter to DECK OUT
   • −10.2 ± 0.5dBm

AC-M512/L, AC-A510/L

4 TAPE SPEED (TAPE II)
1. Test tape (TF-110CT) 3,150Hz, 0VU (AT-751263)
2. Normal speed PLAY
3. • DECK OUT. VR7
   • 3,150 ± 5Hz

2 TAPE SPEED X2 (TAPE II)
1. Test tape (TF-110CT) 3,150Hz, 0VU (AT-751263)
2. Double speed PLAY
3. DECK OUT. VR8
4. • Connect DECK OUT X2 to GND
   • 6,300 ± 5Hz

3 TAPE SPEED (TAPE I)
1. Test tape (TF-110CT) 3,150Hz, 0VU (AT-751263)
2. Normal speed PLAY
3. DECK OUT. VR5
4. 3,170 ± 5Hz

1 TAPE SPEED X2 (TAPE I)
1. Test tape (TF-110CT) 3,150Hz, 0VU (AT-751263)
2. Double speed PLAY
3. DECK OUT. VR6
4. • Connect DECK OUT X2 to GND
   • 6,310 ± 5Hz

8 REC BIAS
1. Normal blank tape, 1kHz & 10kHz, −28.5dBm CD INPUT
2. REC & PLAY
3. DECK OUT. VR4 (L), VR4b (R)
4. • Connect a milli voltmeter to DECK OUT
   • Level difference between 1kHz & 10kHz is within ± 0.5 dBm.

7 PB LEVEL (TAPE II)
1. Test tape (TF-101CL) 315Hz, 0VU (AT-750773)
2. PLAY
3. DECK OUT. VR2 (L), VR102 (R)
4. • Connect a milli voltmeter to DECK OUT
   • −10.2 ± 0.5dBm

6 PB LEVEL (TAPE I)
1. Test tape (TF-101CL) 315Hz, 0VU (AT-750773)
2. PLAY
3. DECK OUT. VR1 (L), VR101 (R)
4. • Connect a milli voltmeter to DECK OUT
   • −10.2 ± 0.5dBm

2 TAPE SPEED (TAPE II)
1. Test tape (TF-110CT) 3,150Hz, 0VU (AT-751263)
2. PLAY
3. LINE OUT, MOTOR VR
4. • Connect a frequency counter to LINE OUT
   • 3,150 ± 5Hz

1 TAPE SPEED (TAPE I)
1. Test tape (TF-110CT) 3,150Hz, 0VU (AT-751263)
2. PLAY
3. LINE OUT, MOTOR VR
4. • Connect a frequency counter to LINE OUT
   • 3,170 ± 5Hz

AC-M312/L ONLY

NOTES:
- * All adjustments are without Dolby.
- * Use the following cassette measuring tapes:
  - NORMAL TAPE: Maxell UDI C-60
  - CrO_2 TAPE: TDK SA C-60
  - METAL TAPE: TDK MA C-60
- * Beat cancel SW is Normal Position during adjustment.

VI.PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20×03STL CMT
2-4	ZS-536488	BID20×08STL CMT
2-5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

A small "x" indicates that this part is not shown in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure.

This number corresponds with the Figure Number.

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
6-C1B	EC-350949	C MMY V 223M 250DC [J]
6-C1C	EC-338397	C MMY V 223M 125AC [C,A]
6-X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A]:AAL(U.S.A.)	[S]:SAA(Australia)
[B]:BEAB(England)	[U]:U/T(Universal Area)
[C]:CSA(Canada)	[V]:VDE(W. Germany)
[E]:CEE(Europe)	[Y]:Custom Version
[J]:JPN(Japan)	

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

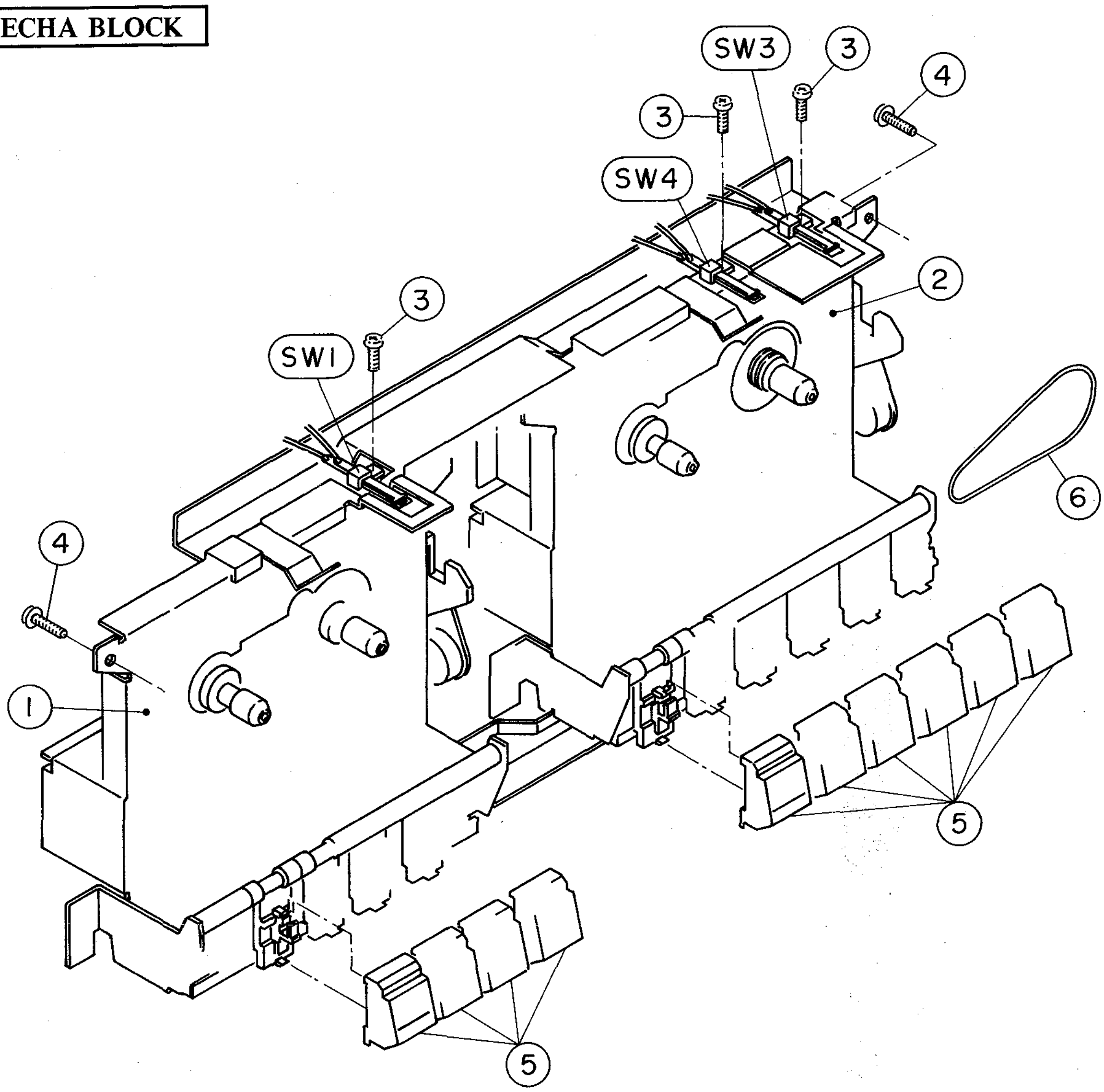
⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

MODEL AC-M312/L, AC-M512/L

1. RECOMMENDED SPARE PARTS

Ref. No.	Part No.	Description
1	AX-500546	REMOCON *C1017 WIRELESS-B (TW)
2	BB-500469	MECHA AKI-050FMB BLK (TW)
3	BB-500470	MECHA AKI-051FMB BLK (TW)
4	BB-500471	MECHA AKI-052FMB BLK (TW)
5	BB-500472	MECHA AKI-053FMB BLK (TW)
6	BF-720036	FLYWHEEL ASSY
7	BM-720050	MOTOR AC-M312
8	BM-720046	MOTOR AC-M512
9	BR-720032	SUPPLY REEL TABLE BLK AC-M312
10	BR-720034	TAKE-UP REEL TABLE BLK AC-M312
11	*BT-500434	TRANS POWER C1016-U
12	*BT-500435	TRANS POWER C1016-C
13	*BT-500436	TRANS POWER C1016-E,V
14	*BT-500437	TRANS POWER C1016-B,S
15	*BT-500830	TRANS POW C1016-Y7 (TW)
16	*BT-500438	TRANS POWER C1017-U
17	*BT-500439	TRANS POWER C1017-C
18	*BT-500440	TRANS POWER C1017-E,V
19	*BT-500831	TRANS POW C1017-Y7
20	BZ-720035	CLUTCH ASSY BLK AC-M312
21	BZ-720037	PINCH ROLLER ARM ASSY
22	ED-355426	D LED PR-5705S-B7 RED
23	ED-373169	D LED SLP-336C-20 GREEN
24	ED-365107	D LED SLP-384C-50 GREEN
25	ED-360409	D PHOTO PN323B
26	*ED-348200	D SILICON DBA20C-K15 200/2.0A
27	*ED-200213	D SILICON DBA40C-K15 200/2.6A
28	*ED-350748	D SILICON DBA60C-K15 200/1.0A
29	*ED-357754	D SILICON DS135D 200/1.0A
30	ED-301911	D SILICON H DS448
31	ED-344280	D SILICON H GMA-01-FY2 F05
32	ED-349448	D VARACTOR 1SV147
33	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
34	ED-337267	D ZENER H HZ4 A1
35	ED-319167	D ZENER H HZ6 C3
36	ED-321180	D ZENER H HZ9 B2
37	ED-346538	D ZENER H HZ9L A2
38	ED-346551	D ZENER H HZ11L B3
39	ED-367552	D ZENER H HZS15J B1 F05
40	EE-F0131E010A	TW PC FRONT END BLK FE31(U) [EXCEPT V]
41	EE-F0141E010B	TW PC FRONT END BLK FE41(V) [V]
42	*EF-306950	FUSE TSC A 250V 2.00A [U,Y7]
43	*EF-306952	FUSE TSC A 250V 4.00A [U,Y7]
44	*EF-308847	FUSE TSC 125V 1.60A [C]
45	*EF-323080	FUSE TSC 125V 3.15A [C]
46	*EF-306957	FUSE TSC 125V 4.00A [C]
47	*EF-346115	FUSE TSC 125V 6.30A [C]
48	*EF-602550	FUSE SEMKO T 250V 1.25A [E,V,S]
49	*EF-691007	FUSE SEMKO T 250V 3.15A [E,V,S]
50	*EF-690996	FUSE SEMKO T 250V 4.00A [E,V,S]
51	*EF-359007	FUSE BET T 250V 1.25A [B]
52	*EF-359225	FUSE BET T 250V 3.15A [B]
53	*EF-359086	FUSE BET T 250V 4.00A [B]
54	EH-344434	FILTER CE BFU450C4N 0.450MHZ
55	EH-355568	FILTER CE SFE10.7MS2G-A
56	EH-338338	FILTER CE SFE10.7MS3GK-A
57	EH-336776	FILTER DB D07003K 100KHZ
58	EH-360924	FILTER LC BP BPMB6A
59	EH-501321	FILTER LC LP L351Y015(FB-7DG)
60	EH-501323	FILTER LC LP L351Y016(FB-7DG)
61	EI-369608	IC BA3416BL
62	EI-373214	IC HA12086
63	EI-373215	IC HD74LS145P
64	EI-361624	IC LA1265
65	EI-359053	IC LA3600
66	EI-345551	IC LB1403
67	EI-351569	IC LC4001B
68	EI-366767	IC LM6416E-1976
69	EI-346071	IC M5218L-21
70	EI-349719	IC M5218P
71	EI-344764	IC M5218P-21
72	*EI-366695	IC STK4172II
73	EI-359683	IC TA7343AP
74	EI-304657	IC TC4011BP
75	EI-332259	IC TC4052BP
76	EI-363289	IC TC9172
77	EI-351966	IC TC9176P
78	EI-363290	IC TC9302AF-011-BS
79	EI-367271	IC UPC1490HA
80	EI-337017	OSC CE CSB800A 0.800000MHZ
81	EI-344422	OSC X'TAL HC-18/U 7.200MHZ
82	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
83	EJ-373203	TERMINAL LEVER SQ2743#10
84	EM-361644	IND LCD 9419P
85	*ER-200926	R FUSE H S10 ERD2FC 1/4W 27R0G
86	*ER-319455	R FUSE H S10 ERD2FC 1/4W 10R0G
87	ES-720041	SW LEAF LSA-1119F
88	ES-717768	SW LEAF LSA-1119R-1
89	ES-366789	SW LEAF LSA-1132EAU
90	ES-364176	SW PUSH SPPH11 2-02-02N
91	*ES-349070	SW SELECTOR YKS11-0002 02-4 [U]
92	ES-363292	SW SLIDE 00120156 01-2
93	ES-501047	SW SLIDE J-S5029#01 02-02N
94	ES-349474	SW TACT SKHHAM004A
95	ET-363953	TR DTA114TS
96	ET-360399	TR DTC114TS
97	ET-336869	TR 2SC2999 C,D
98	ET-349449	TR FET 2SK161 O,Y
99	ET-337759	TR FET 2SK246 GR
100	ET-353899	TR 2SA1317 S,T,U
101	ET-355626	TR 2SA992 E,F
102	*ET-366365	TR 2SB1185 E,F
103	*ET-373210	TR 2SB1187 E,F
104	ET-347143	TR 2SC1845 E,F
105	ET-308977	TR 2SC2274K F F05
106	ET-338410	TR 2SC2878 A,B
107	ET-360067	TR 2SC3330 T,U F05
108	ET-360137	TR 2SC3330 U,V F05
109	ET-351872	TR 2SC3383 R,S
110	ET-350795	TR 2SC3399 F05
111	ET-349592	TR 2SC3400 F05
112	ET-349366	TR 2SC3402 F05
113	ET-328265	TR 2SC930 F
114	ET-338324	TR 2SD1012-V H F05
115	ET-310148	TR 2SD612K E,F
116	EV-366674	VR SPL 6THROW V JK252-5G(6)
117	EV-366676	VR ROTARY VB161GPH25F 3B 104
118	EV-366768	VR ROTARY V12L5GS256F3B100KX2
119	EZ-366626	BATTERY LITHIUM BR2032-1VC
120	HP-720048	HEAD R/P
121	HP-720051	HEAD R/P
122	MB-500390	BELT (TW)
123	MB-720039	BELT AUTO
124	MB-720038	BELT DRIVE
125	MB-720042	BELT DRIVE
126	MB-720040	BELT FR
127	MC-500465	COUNTER T3SG100-130B1-789 (TW)

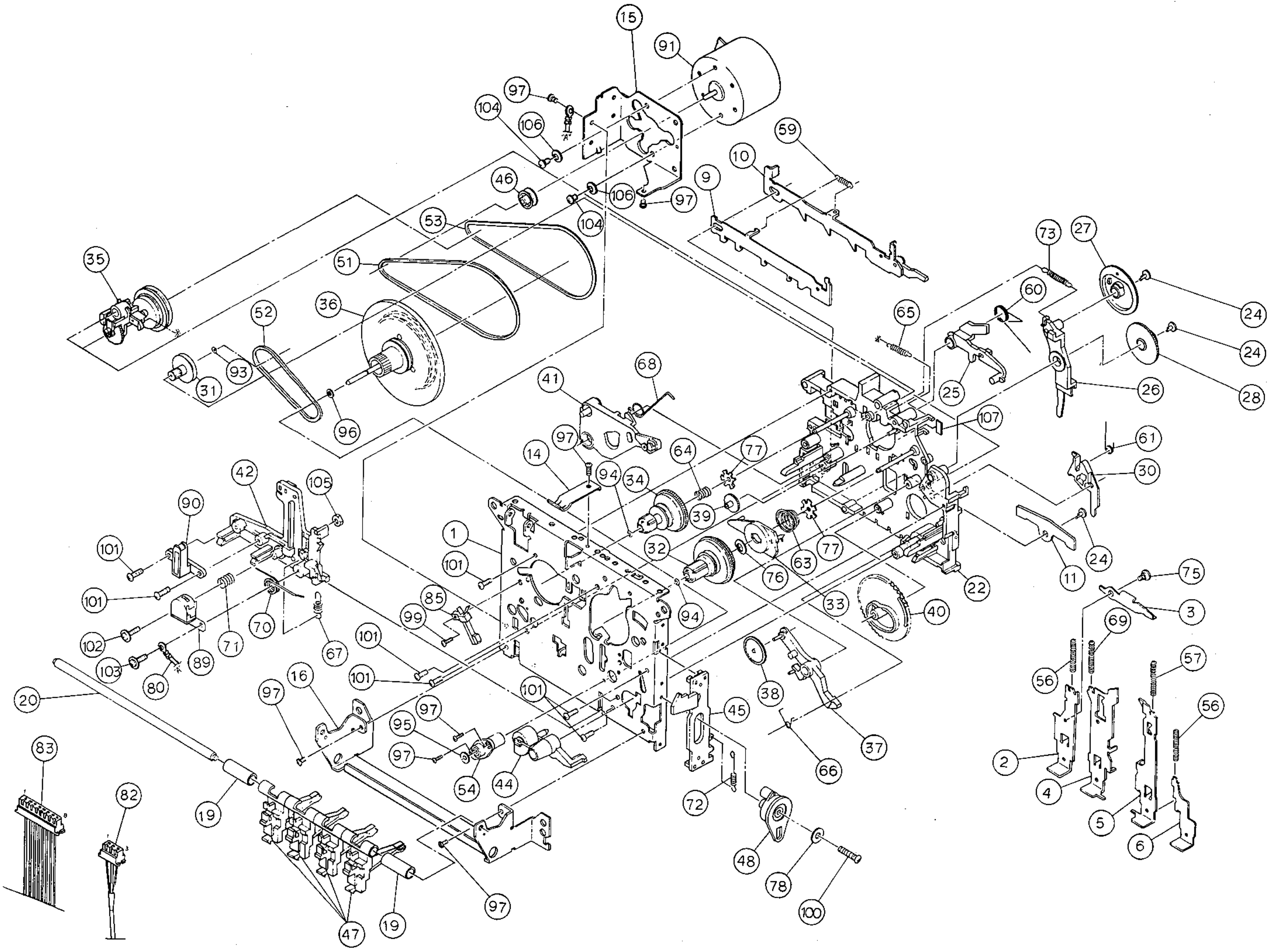
MECHA BLOCK



2. MECHA BLOCK

Ref. No.	Part No.	Description
2-1A	BB-500470	MECHA AKI-051FMB BLK (TW) [AC-M312]
2-1B	BB-500472	MECHA AKI-053FMB BLK (TW) [AC-M512]
2-2A	BB-500469	MECHA AKI-050FMB BLK (TW) [AC-M312]
2-2B	BB-500471	MECHA AKI-052FMB BLK (TW) [AC-M512]
2-SW1	ES-366789	SW LEAF LSA-1132EAU [TAPE 1 70U]
2-SW3	ES-366789	SW LEAF LSA-1132EAU [TAPE 2 70U]
2-SW4	ES-366789	SW LEAF LSA-1132EAU [TAPE 2 METAL]
2-3	ZS-201275	ST PAN26X06STL CMT [LEAF SW FIX]
2-4	ZS-323993	PT BR30X10STL CMT [MECHA BLOCK FIX]
2-5-B	SK-500406B	KNOB OPERATION (B) (TW) [BLACK]
2-5-W	SK-500406D	KNOB OPERATION(W) (TW) [WHITE]
2-6	MB-500390	BELT (TW) [COUNTER BELT]

TAPE I MECHA BLOCK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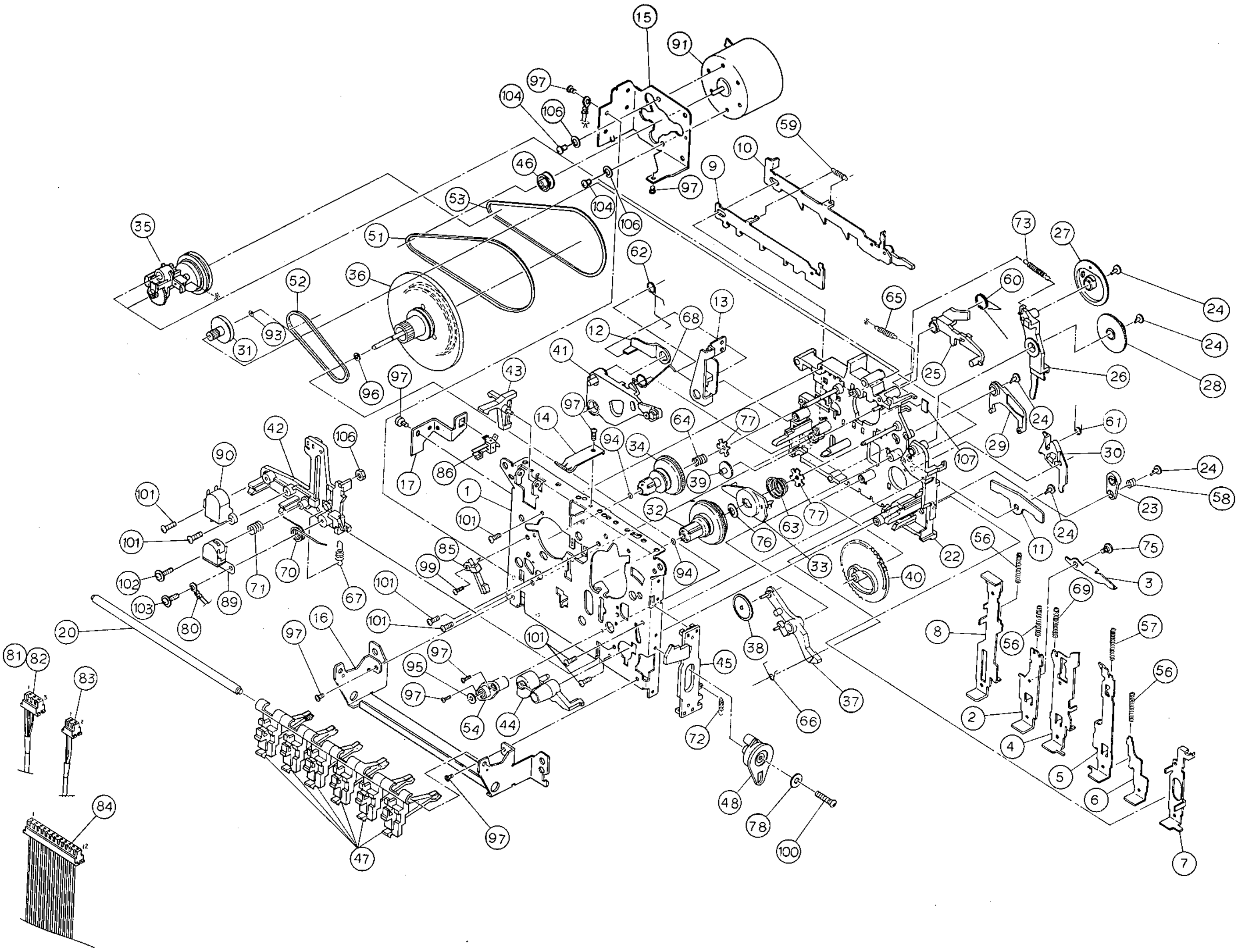
3. TAPE I MECHA BLOCK

Ref. No.	Part No.	Description
3-32	BR-720034	TAKE-UP REEL TABLE BLK AC-M312
3-34	BR-720032	SUPPLY REEL TABLE BLK AC-M312
3-35	BZ-720035	CLUTCH ASSY BLK AC-M312
3-36	BF-720036	FLYWHEEL ASSY
3-44	BZ-720037	PINCH ROLLER ARM ASSY
3-51A	MB-720038	BELT DRIVE [AC-M312]
3-51B	MB-720042	BELT DRIVE [AC-M512]
3-52	MB-720039	BELT AUTO
3-53	MB-720040	BELT FR
3-85	ES-720041	SW LEAF LSA-1119F [SW2 MUTE]
3-89	HP-720051	HEAD R/P [H901]
3-91A	BM-720050	MOTOR AC-M312 [AC-M312]
3-91B	BM-720046	MOTOR AC-M512 [AC-M512]

TAPE II MECHA BLOCK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4. TAPE II MECHA BLOCK

Ref. No.	Part No.	Description
4-32	BR-720034	TAKE-UP REEL TABLE BLK AC-M312
4-34	BR-720032	SUPPLY REEL TABLE BLK AC-M312
4-35	BZ-720035	CLUTCH ASSY BLK AC-M312
4-36	BF-720036	FLYWHEEL ASSY
4-44	BZ-720037	PINCH ROLLER ARM ASSY
4-51A	MB-720038	BELT DRIVE [AC-M312]
4-51B	MB-720042	BELT DRIVE [AC-M512]
4-52	MB-720039	BELT AUTO
4-53	MB-720040	BELT FR
4-85	ES-720041	SW LEAF LSA-1119F [SW5 MUTE]
4-86	ES-717768	SW LEAF LSA-1119R-1 [SW6 REC]
4-89	HP-720048	HEAD R/P [H902]
4-90	HE-720049	HEAD E [H903]
4-91A	BM-720050	MOTOR AC-M312 [AC-M312]
4-91B	BM-720046	MOTOR AC-M512 [AC-M512]

5. P.C BOARD BLOCK

Ref. No.	Part No.	Description
5-1A	BA-C1016A070A	TW PC BASE(312)BLK AC-M312(U) [U,Y7]
5-1B	BA-C1016A070B	TW PC BASE(312)BLK AC-M312(C) [C]
5-1C	BA-C1016A070C	TW PC BASE(312)BLK AC-M312(E) [E]
5-1D	BA-C1016A070D	TW PC BASE(312)BLK AC-M312(V) [V]
5-1E	BA-C1016A070E	TW PC BASE(312)BLK AC-M312(S) [S]
5-1F	BA-C1016A070F	TW PC BASE(312)BLK AC-M312L [E,B]
5-1G	BA-C1017A070A	TW PC BASE(512)BLK AC-M512(U) [U,Y7]
5-1H	BA-C1017A070B	TW PC BASE(512)BLK AC-M512(C) [C]
5-1J	BA-C1017A070C	TW PC BASE(512)BLK AC-M512(E) [E]
5-1K	BA-C1017A070D	TW PC BASE(512)BLK AC-M512(V) [V]
5-1L	BA-C1017A070E	TW PC BASE(512)BLK AC-M512(S) [S]
5-1M	BA-C1017A070F	TW PC BASE(512)BLK AC-M512L [E,B]
5-2A	EE-F0131E010A	TW PC FRONT END BLK FE31(U) [U,Y7,C,E,B,S]
5-2B	EE-F0141E010B	TW PC FRONT END BLK FE41(V) [V]
5-3A	BA-C1016A030A	TW PC#DECK(312) BLK AC-M312(U) [U]
5-3B	BA-C1016A030B	TW PC#DECK(312) BLK AC-M312(C) [C]
5-3C	BA-C1016A030C	TW PC#DECK(312) BLK AC-M312(E) [E,S]
5-3D	BA-C1016A030D	TW PC#DECK(312) BLK AC-M312(V) [V]
5-3E	BA-C1016A030E	TW PC#DECK(312) BLK AC-M312L [E,B]
5-3F	BA-C1017A030A	TW PC#DECK(512) BLK AC-M512(U) [U,Y7]
5-3G	BA-C1017A030B	TW PC# DECK(512)BLK AC-M512(C) [C]
5-3H	BA-C1017A030C	TW PC#DECK(512)BLK AC-M512(E) [E,S]
5-3J	BA-C1017A030D	TW PC#DECK(512)BLK AC-M512(V) [V]
5-3K	BA-C1017A030E	TW PC#DECK(512)BLK AC-M512L [E,B]
5-4A	BA-C1016A020A	TW PC#MAIN(312)BLK AC-M312(U) [U,Y7]
5-4B	BA-C1016A020B	TW PC#MAIN(312)BLK AC-M312(C) [C]
5-4C	BA-C1016A020C	TW PC#MAIN(312)BLK AC-M312(E) [E,B,S]
5-4D	BA-C1016A020D	TW PC#MAIN(312)BLK AC-M312(V) [V]
5-4E	BA-C1017A020A	TW PC#MAIN(512)BLK AC-M512(U) [U,Y7]
5-4F	BA-C1017A020B	TW PC#MAIN(512)BLK AC-M512(C) [C]
5-4G	BA-C1017A020C	TW PC#MAIN(512)BLK AC-M512(E) [E,B,S]
5-4H	BA-C1017A020D	TW PC#MAIN(512)BLK AC-M512(V) [V]
5-5A	BA-C1016A040A	TW PC# CONTROL(A)BLK AC-M312
5-5B	BA-C1016A040B	TW PC# CONTROL(A)BLK AC-M512

PC (#) DECK BLK CONSISTS OF FOLLOWING P.C BOARD.

- DECK P.C BOARD
- DOLBY SW P.C BOARD
- BEAT SW P.C BOARD
- LCD P.C BOARD

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN P.C BOARD
- DOLBY SW P.C BOARD
- POWER SW P.C BOARD
- HEADPHONE P.C BOARD
- ENCODER VOLUME P.C BOARD

PC (#) CONTROL BLK CONSISTS OF FOLLOWING P.C BOARD.

- CONTROL P.C BOARD
- DETECTOR P.C BOARD

6. BASE P.C BOARD

Ref. No.	Part No.	Description
6-D1	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
6-D2	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
6-D3	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D4	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D5	ED-344280	D SILICON H GMA-01-FY2 F05
6-D6	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D7	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D8	ED-321180	D ZENER H HZ9 B2
6-D9	ED-344280	D SILICON H GMA-01-FY2 F05 [U,Y7]
6-D10	ED-301911	D SILICON H DS448
6-D11	ED-319167	D ZENER H HZ6 C3
6-D101	ED-344280	D SILICON H GMA-01-FY2 F05
6-D102	ED-344280	D SILICON H GMA-01-FY2 F05
6-D103	ED-344280	D SILICON H GMA-01-FY2 F05
6-D104	ED-344280	D SILICON H GMA-01-FY2 F05
6-D105	ED-344280	D SILICON H GMA-01-FY2 F05
6-D106	ED-346538	D ZENER H HZ9L A2
6-D107	ED-346538	D ZENER H HZ9L A2
6-D201	ED-344280	D SILICON H GMA-01-FY2 F05
6-FL1	EH-355568	FILTER CE SFE10.7MS2G-A [U,Y7,C,E,B,S]
6-FL1A	EH-338338	FILTER CE SFE10.7MS3GK-A [V]
6-FL2	EH-355568	FILTER CE SFE10.7MS2G-A
6-FL3	EH-344434	FILTER CE BFU450C4N 0.450MHZ
6-FL4	EH-501321	FILTER LC LP L351Y015(FB-7DG)
6-FL5	EH-501321	FILTER LC LP L351Y015(FB-7DG)
6-FL6	EH-501323	FILTER LC LP L351Y016(FB-7DG) [V]
6-FL7	EH-360924	FILTER LC BP BPMB6A [V]
6-IC1	EI-361624	IC LA1265
6-IC2	EI-359683	IC TA7343AP
6-IC3	EI-363289	IC TC9172
6-IC101	EI-344764	IC M5218P-21
6-IC102	EI-332259	IC TC4052BP
6-IC103	EI-349719	IC M5218P
6-IC201	EI-351966	IC TC9176P
6-IC202	EI-349719	IC M5218P
6-IC301	EI-332259	IC TC4052BP
6-J101	EJ-501350	PIN J PCB-204S P 4P [CD/PHONO IN]
6-J102	EJ-337424	PIN J AJC-034-ABB P 2P [LINE OUT]
6-J103	EJ-373207	SOCKET INLET HEC0470-01-250 [POWER SUPPLY]
6-L101	EO-325760	COIL FIX 1 LAL04 330K [V]
6-R13	ER-324184	R CB H S10 FS RDS 1/4W 121J

Ref. No.	Part No.	Description
6-R23	ER-333406	R CB H S10 FS RDS 1/4W 363J
6-R35	ER-367512	R CB H S12 FS RDS 1/2W 121J
6-R57	ER-306805	R CB H S15 FS RDS 1/2W 101J
6-R83	ER-321192	R OMF H S20 FS 2W 101J
6-SW1	ES-363292	SW SLIDE 00120156 01-2 [AM STEPE U,Y7]
6-TM1	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P [ANTENNA]
6-TR1	ET-338410	TR 2SC2878 A,B [L ONLY]
6-TR2	ET-349449	TR FET 2SK161 O,Y [L ONLY]
6-TR4	ET-328265	TR 2SC930 F
6-TR5	ET-360137	TR 2SC3330 U,V F05
6-TR6	ET-351872	TR 2SC3383 R,S
6-TR7	ET-360137	TR 2SC3330 U,V F05
6-TR8	ET-351872	TR 2SC3383 R,S
6-TR9	ET-353899	TR 2SA1317 S,T,U
6-TR10	ET-353899	TR 2SA1317 S,T,U
6-TR11	ET-360137	TR 2SC3330 U,V F05 [L ONLY]
6-TR12	ET-360137	TR 2SC3330 U,V F05 [L ONLY]
6-TR13	ET-360137	TR 2SC3330 U,V F05
6-TR14	ET-360137	TR 2SC3330 U,V F05
6-TR15	ET-360137	TR 2SC3330 U,V F05
6-TR16	ET-337759	TR FET 2SK246 GR
6-TR17	ET-351872	TR 2SC3383 R,S
6-TR18	ET-360137	TR 2SC3330 U,V F05
6-TR101	ET-350795	TR 2SC3399 F05
6-TR102	ET-350795	TR 2SC3399 F05
6-TR103	ET-350795	TR 2SC3399 F05
6-TR104	ET-353899	TR 2SA1317 S,T,U
6-TR105	ET-353899	TR 2SA1317 S,T,U
6-TR106	*ET-360067	TR 2SC3330 T,U F05
6-TR107	*ET-353899	TR 2SA1317 S,T,U
6-T1	EO-356732	COIL IFT BCFLZ-450A
6-T2	EO-501338	COIL VARI 2 Y36(CSM-10C)
6-T3	EO-501339	COIL VARI 2 Y037(SM-10C) [L ONLY]
6-T4	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
6-T5	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH [L ONLY]
6-T6	EO-373196	COIL DET 2 195AEA-1133FGL
6-T7	EO-373197	COIL DET 2 YTKAEAS-35879X
6-VC1	EC-363329	C S-FIX H CTC-64-010 2.5-10
6-VC1A	EC-363331	C S-FIX H CTC-6U-030 5.5-30 [L ONLY]
6-VC2	EC-363331	C S-FIX H CTC-6U-030 5.5-30 [L ONLY]
6-VR1	EV-367499	R S-FIX H V6EKPV(1S) 3P 472
6-VR2	EV-367499	R S-FIX H V6EKPV(1S) 3P 472

7. FRONT END P.C BOARD

Ref. No.	Part No.	Description
7-D1	ED-349448	D VARACTOR 1SV147
7-D2	ED-349448	D VARACTOR 1SV147
7-D3	ED-349448	D VARACTOR 1SV147 [V]
7-D4	ED-349448	D VARACTOR 1SV147
7-L1	EO-349461	COIL FIX 2 LINK
7-L2	EO-349462	COIL FIX 2 U147
7-L3	EO-349461	COIL FIX 2 LINK
7-L4	EO-349462	COIL FIX 2 U147
7-L5	EO-349462	COIL FIX 2 U147 [V]
7-L6	EO-359056	COIL FIX 1 LAL03NA 2R2M
7-L7	EO-353687	COIL OSC 2 E525HN-110003
7-TR1	ET-349449	TR FET 2SK161 O,Y

Ref. No.	Part No.	Description
7-TR2	ET-336869	TR 2SC2999 C,D
7-TR3	ET-328265	TR 2SC930 F
7-TR4	ET-349449	TR FET 2SK161 O,Y
7-T1	EO-337640	COIL IFT 119AC-15533X 10.7MHZ

8. DECK P.C BOARD

Ref. No.	Part No.	Description
8-C41	EC-347255	C MC V F05 FM 151J 500DC
8-C55	EC-349631	C PP V F10 ECQ-F 182J 630DC
8-C56	EC-347263	C MC V F05 FM 221J 500DC
8-D1	ED-344280	D SILICON H GMA-01-FY2 F05
8-D2	ED-344280	D SILICON H GMA-01-FY2 F05
8-D3	ED-344280	D SILICON H GMA-01-FY2 F05
8-D4	ED-344280	D SILICON H GMA-01-FY2 F05
8-D5	ED-344280	D SILICON H GMA-01-FY2 F05 [AC-M512 ONLY]
8-D6	ED-344280	D SILICON H GMA-01-FY2 F05 [AC-M512 ONLY]
8-D7	ED-344280	D SILICON H GMA-01-FY2 F05
8-D8	ED-344280	D SILICON H GMA-01-FY2 F05
8-D9	ED-344280	D SILICON H GMA-01-FY2 F05
8-D10	ED-344280	D SILICON H GMA-01-FY2 F05
8-D11	ED-337267	D ZENER H HZ4 A1
8-D12	ED-346551	D ZENER H HZ11L B3
8-D13	ED-344280	D SILICON H GMA-01-FY2 F05
8-D14	ED-344280	D SILICON H GMA-01-FY2 F05
8-D16	ED-344280	D SILICON H GMA-01-FY2 F05
8-D17	ED-344280	D SILICON H GMA-01-FY2 F05
8-D18	ED-344280	D SILICON H GMA-01-FY2 F05
8-D200	ED-344280	D SILICON H GMA-01-FY2 F05
8-FL1	EH-336776	FILTER DB D07003K 100KHZ
8-FL2	EO-356809	COIL FIX 1 100Z-121 100.00KHZ
8-FL3	EH-336776	FILTER DB D07003K 100KHZ
8-FR1	*ER-200926	R FUSE H S10 ERD2FC 1/4W 27R0G
8-IC1	EI-369608	IC BA3416BL
8-IC2	EI-373214	IC HA12086
8-IC3	EI-346071	IC M5218L-21
8-IC4	EI-304657	IC TC4011BP
8-IC5	EI-304657	IC TC4011BP
8-IC6	EI-304657	IC TC4011BP [AC-M512 ONLY]
8-IC7	EI-351569	IC LC4001B
8-L1	EO-357050	COIL FIX 1 RC875 822J
8-L2	EO-373247	COIL FIX 1 RC87 [illegible] [AC-M512 O
8-L3	EO-318380	COIL FIX 1 LAL
8-L4	EO-345931	COIL FIX 1 LAL03KH 2
8-TR1	ET-360067	TR 2SC3330 T,U F05 [AC-M512 ONLY]
8-TR2	ET-347143	TR 2SC1845 E,F
8-TR3	ET-347143	TR 2SC1845 E,F
8-TR4	ET-355626	TR 2SA992 E,F
8-TR5	ET-360067	TR 2SC3330 T,U F05
8-TR6	ET-350795	TR 2SC3399 F05
8-TR7	ET-350795	TR 2SC3399 F05
8-TR8	ET-360067	TR 2SC3330 T,U F05
8-TR9	ET-363953	TR DTA114TS
8-TR10	ET-360067	TR 2SC3330 T,U F05
8-TR11	ET-360067	TR 2SC3330 T,U F05
8-TR12	ET-360067	TR 2SC3330 T,U F05
8-TR13	ET-360067	TR 2SC3330 T,U F05
8-TR14	ET-363953	TR DTA114TS
8-TR15	ET-350795	TR 2SC3399 F05
8-TR16	ET-360067	TR 2SC3330 T,U F05
8-TR17	ET-360067	TR 2SC3330 T,U F05
8-TR18	ET-360067	TR 2SC3330 T,U F05
8-TR19	ET-360067	TR 2SC3330 T,U F05
8-TR20	ET-360067	TR 2SC3330 T,U F05
8-TR21	ET-360067	TR 2SC3330 T,U F05

Ref. No.	Part No.	Description
8-TR22	ET-360067	TR 2SC3330 T,U F05
8-TR23	ET-360067	TR 2SC3330 T,U F05
8-TR24	ET-360067	TR 2SC3330 T,U F05
8-TR25	ET-360067	TR 2SC3330 T,U F05
8-TR26	ET-360067	TR 2SC3330 T,U F05
8-TR27	ET-363953	TR DTA114TS
8-TR28	ET-363953	TR DTA114TS
8-TR29	ET-350795	TR 2SC3399 F05
8-TR30	ET-350795	TR 2SC3399 F05
8-TR31	ET-360067	TR 2SC3330 T,U F05
8-TR32	ET-360067	TR 2SC3330 T,U F05
8-TR33	ET-349366	TR 2SC3402 F05
8-TR34	ET-349366	TR 2SC3402 F05
8-TR35	*ET-310148	TR 2SD612K E,F
8-TR36	ET-363953	TR DTA114TS
8-TR37	ET-360067	TR 2SC3330 T,U F05
8-TR38	ET-360067	TR 2SC3330 T,U F05 [AC-M512 ONLY]
8-TR39	ET-350795	TR 2SC3399 F05
8-TR40	ET-363953	TR DTA114TS
8-TR41	ET-308977	TR 2SC2274K F F05
8-TR42	ET-308977	TR 2SC2274K F F05
8-TR43	ET-310148	TR 2SD612K E,F
8-TR44	ET-349366	TR 2SC3402 F05
8-TR45	ET-349366	TR 2SC3402 F05
8-TR46	ET-360067	TR 2SC3330 T,U F05
8-TR47	ET-350795	TR 2SC3399 F05
8-TR48	ET-360399	TR DTC114TS [AC-M512 ONLY]
8-TR49	ET-360399	TR DTC114TS [AC-M512 ONLY]
8-TR50	ET-353899	TR 2SA1317 S,T,U [AC-M512 ONLY]
8-TR51	ET-350795	TR 2SC3399 F05
8-TR52	ET-310148	TR 2SD612K E,F
8-TR53	ET-360067	TR 2SC3330 T,U F05
8-TR54	ET-360067	TR 2SC3330 T,U F05
8-TR55	ET-350795	TR 2SC3399 F05
8-TR60	ET-353899	TR 2SA1317 S,T,U [AC-M512 ONLY]
8-T1	EO-349589	COIL OSC 1 32-5016-12
8-VR1	EV-522663	R S-FIX V V8K1-1 3P 104
8-VR2	EV-522663	R S-FIX V V8K1-1 3P 104
8-VR3	EV-572422	R S-FIX V V8K1-1 3P 203
8-VR4	EV-522663	R S-FIX V V8K1-1 3P 104
8-VR5	EV-522404	R S-FIX V V8K1-1 3P 102 [AC-M512 ONLY]
8-VR6	EV-464253	R S-FIX V V8K1-1 3P 202 [AC-M512 ONLY]
8-VR7	EV-522404	R S-FIX V V8K1-1 3P 102 [AC-M512 ONLY]
8-VR8	EV-464253	R S-FIX V V8K1-1 3P 202 [AC-M512 ONLY]

9. DOLBY SW P.C BOARD

Ref. No.	Part No.	Description
9-D1	ED-355426	D LED PR-5705S-B7 RED [REC]
9-SW1	ES-364176	SW PUSH SPPH11 2-02-02N [DOLBY NR]
9-SW2	ES-364176	SW PUSH SPPH11 2-02-02N [DUBBING SPEED][M512 ONLY]

10. BEAT SW P.C BOARD

Ref. No.	Part No.	Description
10-SW1	ES-501047	SW SLIDE J-S5029#01 02-02N [BEAT SW]

11. LCD P.C BOARD

Ref. No.	Part No.	Description
11-BT1	EZ-366626	BATTERY LITHIUM BR2032-1VC
11-D1	ED-344280	D SILICON H GMA-01-FY2 F05
11-D2	ED-344280	D SILICON H GMA-01-FY2 F05
11-D3	ED-344280	D SILICON H GMA-01-FY2 F05
11-D4	ED-344280	D SILICON H GMA-01-FY2 F05
11-D5	ED-344280	D SILICON H GMA-01-FY2 F05
11-D6	ED-344280	D SILICON H GMA-01-FY2 F05
11-D7	ED-344280	D SILICON H GMA-01-FY2 F05
11-D8	ED-344280	D SILICON H GMA-01-FY2 F05
11-D10	ED-301911	D SILICON H DS448 [L]
11-D11	ED-301911	D SILICON H DS448 [C]
11-IC1	EI-363290	IC TC9302AF-011-BS
11-IN1	EM-361644	IND LCD 9419P
11-IN2	EL-362308	PL CORD 14.0V 80MA L=80
11-TR1	ET-353899	TR 2SA1317 S,T,U [U,Y7]
11-X1	EI-344422	OSC X'TAL HC-18/U 7.200MHZ

12. MAIN P.C BOARD

Ref. No.	Part No.	Description
12-C101	EC-326583	C MMY V CUT CF921 473K 400DC
12-C103	EC-324662	C EC V CUT AS1 222M 25.0DC
12-C107A	EC-358538	C EC V CUT 472M 45.0DC [AC-M312]
12-C107B	EC-361665	C EC V CUT 472M 50.0DC [AC-M512]
12-C109A	EC-358538	C EC V CUT 472M 45.0DC [AC-M312]
12-C109B	EC-361665	C EC V CUT 472M 50.0DC [AC-M512]
12-D101A	*ED-200213	D SILICON DBA40C-K15 200/2.6A [AC-M312]
12-D101B	*ED-350748	D SILICON DBA60C-K15 200/1.0A [AC-M512]
12-D102	*ED-348200	D SILICON DBA20C-K15 200/2.0A
12-D103	*ED-357754	D SILICON DS135D 200/1.0A
12-D104	ED-301911	D SILICON H DS448
12-D105	ED-301911	D SILICON H DS448
12-D106	ED-301911	D SILICON H DS448
12-D107	ED-367552	D ZENER H HZS15J B1 F05
12-D108	ED-367552	D ZENER H HZS15J B1 F05
12-D109	ED-367552	D ZENER H HZS15J B1 F05
12-D110	ED-367552	D ZENER H HZS15J B1 F05
12-D111	ED-301911	D SILICON H DS448
12-FR108	*ER-319455	R FUSE H S10 ERD2FC 1/4W 10R0G
12-FR109	*ER-319455	R FUSE H S10 ERD2FC 1/4W 10R0G
12-IC101	*EI-366695	IC STK4172II
12-L101	EO-337880	COIL FIX 2 202AK-018 2R2K
12-L102	EO-342936	COIL BALUM
12-R103	ER-337755	R OMF H S20 FS 2W 222J [AC-M512 ONLY]
12-R133	ER-324337	R CB H S10 FS RDS 1/4W 560J
12-R134	ER-322332	R CB H S10 FS RDS 1/4W 8R2J

Ref. No.	Part No.	Description
12-R135	ER-341940	R OMF H S15 FS 1W 100J
12-R136	ER-341940	R OMF H S15 FS 1W 100J
12-TM101	EJ-373203	TERMINAL LEVER SQ2743#10 [SPEAKER]
12-TR101	*ET-366677	TR 2SD1761 E,F
12-TR102	*ET-360067	TR 2SC3330 T,U F05
12-TR103A	*ET-366581	TR 2SD1762 E,F [AC-M312]
12-TR103B	*ET-366677	TR 2SD1761 E,F [AC-M512]
12-TR104A	*ET-366365	TR 2SB1185 E,F [AC-M312]
12-TR104B	*ET-373210	TR 2SB1187 E,F [AC-M512]
12-TR105	*ET-366581	TR 2SD1762 E,F
12-TR106	*ET-360067	TR 2SC3330 T,U F05
12-F6A	*EF-306952	FUSE TSC A 250V 4.00A [U,Y7]
12-F7A	*EF-306952	FUSE TSC A 250V 4.00A [U,Y7]
12-F3B	*EF-346115	FUSE TSC 125V 6.30A [C]
12-F4B	*EF-346115	FUSE TSC 125V 6.30A [C]
12-F5B	*EF-308847	FUSE TSC 125V 1.60A [C]
12-F6B	*EF-306957	FUSE TSC 125V 4.00A [C]
12-F7B	*EF-306957	FUSE TSC 125V 4.00A [C]
12-F3C	*EF-690996	FUSE SEMKO T 250V 4.00A [E,V,S]
12-F4C	*EF-690996	FUSE SEMKO T 250V 4.00A [E,V,S]
12-F5C	*EF-602550	FUSE SEMKO T 250V 1.25A [E,V,S]
12-F6C	*EF-691007	FUSE SEMKO T 250V 3.15A [E,V,S]
12-F7C	*EF-691007	FUSE SEMKO T 250V 3.15A [E,V,S]
12-F3D	*EF-359086	FUSE BET T 250V 4.00A [B]
12-F4D	*EF-359086	FUSE BET T 250V 4.00A [B]
12-F5D	*EF-359007	FUSE BET T 250V 1.25A [B]
12-F6D	*EF-359225	FUSE BET T 250V 3.15A [B]
12-F7D	*EF-359225	FUSE BET T 250V 3.15A [B]

13. POWER SW P.C BOARD

Ref. No.	Part No.	Description
13-C150	*EC-320548	C CE V F 103Z 250AC [U,Y7]
13-C150A	*EC-338411	C CE V FZ 103P 400AC [C]
13-C150B	*EC-338496	C CE V FZ 472P 400AC [E,S,V]
13-L150	*EO-338409	COIL LF FKOB160MH02 250UH [AC-M512L]
13-R150	*ER-356573	R SD ANTI-STATIC 1/2W 225K [C]
13-SW150	*ES-361797	SW PUSH SDDLD1 1-01 [POWER]
13-F1A	*EF-306950	FUSE TSC A 250V 2.00A [U,Y7]
13-F2A	*EF-306950	FUSE TSC A 250V 2.00A [U,Y7]
13-F1B	*EF-323080	FUSE TSC 125V 3.15A [C]
13-F1C	*EF-602550	FUSE SEMKO T 250V 1.25A [E,V,S]
13-F1D	*EF-359007	FUSE BET T 250V 1.25A [B]

14. HEADPHONE P.C BOARD

Ref. No.	Part No.	Description
14-J160	EJ-373208	PHONE J HLJ2318-3040 [PHONES]
14-R160	ER-351221	R OMF H S15 FS 1W 221J

15. ENCODER VOLUME P.C BOARD

Ref. No.	Part No.	Description
15-VR170	EV-366676	VR ROTARY VB161GPH25F 3B 104 [VOLUME][AC-M312]
15-VR180	EV-366768	VR ROTARY V12L5GS256F3B100KX2 [VOLUME][AC-M512]

16. GRAPHIC EQ P.C BOARD

Ref. No.	Part No.	Description
16-IC1	EI-359053	IC LA3600
16-TR1	ET-338324	TR 2SD1012-V H F05

17. CONTROL P.C BOARD

Ref. No.	Part No.	Description
17-D12	ED-365107	D LED SLP-384C-50 GREEN
17-D13	ED-365107	D LED SLP-384C-50 GREEN
17-D14	ED-365107	D LED SLP-384C-50 GREEN
17-D15	ED-365107	D LED SLP-384C-50 GREEN
17-D16	ED-373169	D LED SLP-336C-20 GREEN
17-D17	ED-373169	D LED SLP-336C-20 GREEN
17-D18	ED-373169	D LED SLP-336C-20 GREEN
17-D19	ED-373169	D LED SLP-336C-20 GREEN
17-D20	ED-301911	D SILICON H DS448 [AC-M512 ONLY]
17-IC2	EI-345551	IC LB1403
17-IC3	EI-373215	IC HD74LS145P [AC-M312 ONLY]
17-IC4	EI-366767	IC LM6416E-1976 [AC-M512 ONLY]
17-L1	EO-345920	COIL FIX 1 LAL03KH 330K [AC-M512 ONLY]
17-R12	ER-321619	R OMF H S15 FS 1W 101J
17-TR2	ET-350795	TR 2SC3399 F05 [AC-M512 ONLY]
17-TR3	ET-349592	TR 2SC3400 F05 [AC-M512 ONLY]
17-TR4	ET-360137	TR 2SC3330 U,V F05 [AC-M512 ONLY]
17-TR5	ET-360137	TR 2SC3330 U,V F05 [AC-M512 ONLY]
17-TR6	ET-360137	TR 2SC3330 U,V F05 [AC-M512 ONLY]
17-TR7	ET-360137	TR 2SC3330 U,V F05 [AC-M512 ONLY]
17-TR8	ET-360137	TR 2SC3330 U,V F05 [AC-M512 ONLY]
17-TS1	ES-349474	SW TACT SKHHAM004A
17-TS2	ES-349474	SW TACT SKHHAM004A
17-TS3	ES-349474	SW TACT SKHHAM004A
17-TS4	ES-349474	SW TACT SKHHAM004A
17-TS5	ES-349474	SW TACT SKHHAM004A
17-TS6	ES-349474	SW TACT SKHHAM004A
17-TS7	ES-349474	SW TACT SKHHAM004A
17-TS8	ES-349474	SW TACT SKHHAM004A
17-TS9	ES-349474	SW TACT SKHHAM004A
17-TS10	ES-349474	SW TACT SKHHAM004A
17-TS11	ES-349474	SW TACT SKHHAM004A
17-TS12	ES-349474	SW TACT SKHHAM004A
17-TS13	ES-349474	SW TACT SKHHAM004A
17-TS14	ES-349474	SW TACT SKHHAM004A
17-TS15	ES-349474	SW TACT SKHHAM004A
17-TS16	ES-349474	SW TACT SKHHAM004A
17-TS17	ES-349474	SW TACT SKHHAM004A
17-X2	EI-337017	OSC CE CSB800A 0.800000MHZ [AC-M512 ONLY]

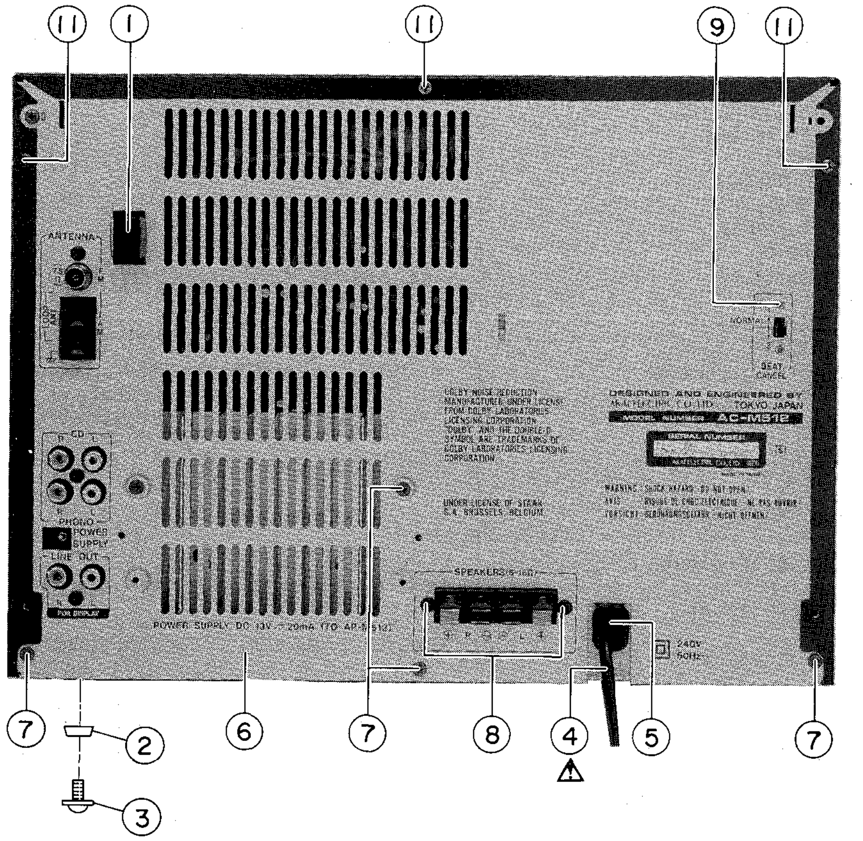
18. DETECTOR P.C BOARD

Ref. No.	Part No.	Description
18-D21	ED-360409	D PHOTO PN323B [AC-M512 ONLY]
18-IC5	EI-367271	IC UPC1490HA [AC-M512 ONLY]

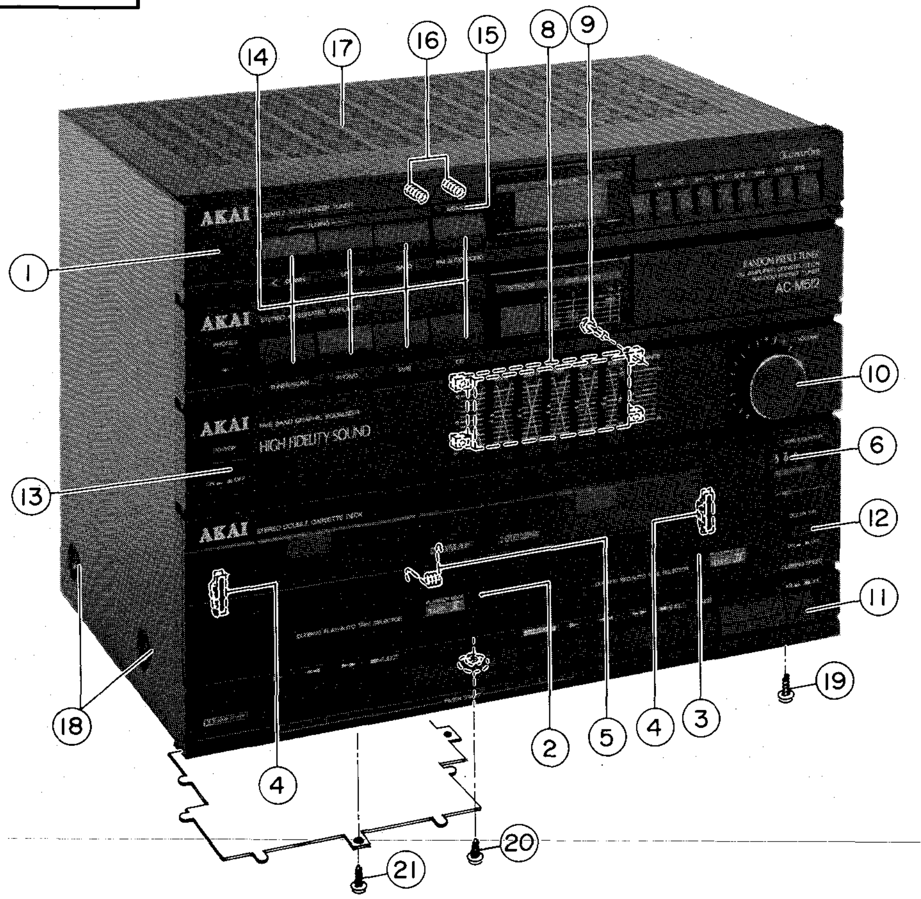
19. ASSEMBLY BLOCK

Ref. No.	Part No.	Description
19-1	SZ-362273	HOLDER ANTENNA (2)
19-2	SA-349332	FOOT
19-3	ZS-498273	T2BR30X08STL CMT PW080
19-4A	*EW-374894	AC CORD 2C VM-0129A,VFF U/T [U]
19-4B	*EW-367500	AC CORD200 KP10WSPT2 UC [C]
19-4C	*EW-336923	AC CORD 2C KP-419C,LTCE-2F EV [E,V]
19-4D	*EW-347898	AC CORD 2 CORES VM-0436,LCFL S [S]
19-4E	*EW-347025	AC CORD 2 CORES LTBS-2F B [B]
19-4F	*EW-368470	AC CORD200 KP8H LTCE B Y7 [Y7]
19-5	*EZ-371605	BUSH CORD 2271
19-6A	SP-500371A	PANEL REAR AC-M312(U) (TW)
19-6B	SP-500371B	PANEL REAR AC-M312(C,A) (TW)
19-6C	SP-500371C	PANEL REAR AC-M312(E,V) (TW)
19-6D	SP-500371D	PANEL REAR AC-M312(S) (TW)
19-6E	SP-500371E	PANEL REAR AC-M312L(E) (TW)
19-6F	SP-500371F	PANEL REAR AC-M312L(B) (TW)
19-6G	SP-500371G	PANEL REAR AC-M512(U) (TW)
19-6H	SP-500371H	PANEL REAR AC-M512(C) (TW)
19-6J	SP-500371J	PANEL REAR AC-M512(E,V) (TW)
19-6K	SP-500371K	PANEL REAR AC-M512(S) (TW)
19-6L	SP-500371L	PANEL REAR AC-M512L(E) (TW)
19-6M	SP-500371M	PANEL REAR AC-M512L(B) (TW)
19-6Y	SP-500371Y	PANEL REAR AC-M312(Y7) (TW)
19-6Z	SP-500371Z	PANEL REAR AC-M512(Y7) (TW)
19-7	ZS-308846	T2BR30X08STL BZN PROJECTION
19-8	ZS-351886	PT BR30X10STL BNI
19-9	ZS-460440	PAN20X04STL CMT
19-SW901	*ES-349070	SW SELECTOR YKS11-0002 02-4 [U,Y7]
19-T901A	*BT-500434	TRANS POWER C1016-U [AC-M312]
19-T901B	*BT-500435	TRANS POWER C1016-C [AC-M312]
19-T901C	*BT-500436	TRANS POWER C1016-E,V [AC-M312]
19-T901D	*BT-500437	TRANS POWER C1016-B,S [AC-M312]
19-T901E	*BT-500830	TRANS POW C1016-Y7 (TW) [AC-M312]
19-T901F	*BT-500438	TRANS POWER C1017-U [AC-M512]
19-T901G	*BT-500439	TRANS POWER C1017-C [AC-M512]
19-T901H	*BT-500440	TRANS POWER C1017-E,V [AC-M512]
19-T901J	*BT-500441	TRANS POWER C1017-B,S [AC-M512]
19-T901K	*BT-500831	TRANS POW C1017-Y7 [AC-M512]
19-10	ZS-314702	ST BID40X10STL CMT [TRANS FIX]
19-11	ZS-308846	T2BR30X08STL BZN PROJECTION

ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK



20. FINAL ASSEMBLY BLOCK

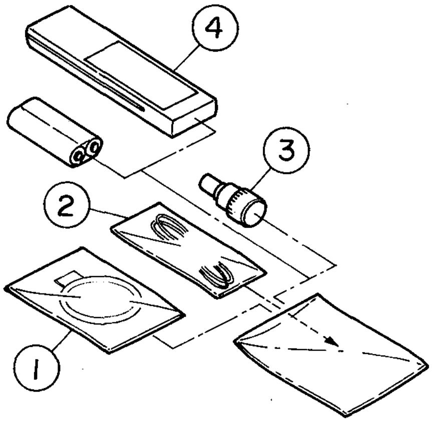
Ref. No.	Part No.	Description
20-1A-B	BD-C1016A090A	TW PANEL FRONT BLK AC-M312-B [INCL. 2,3]
20-1A-W	BD-C1016A090H	TW PANEL FRONT BLK AC-M312-W [INCL. 2,3]
20-1B-B	BD-C1016A090B	TW PANEL FRONT BLK AC-M312L-B [INCL. 2,3]
20-1B-W	BD-C1016A090J	TW PANEL FRONT BLK AC-M312L-W [INCL. 2,3]
20-1C-B	BD-C1016A090C	TW PANEL FRONT BLK AC-M512-B [INCL. 2,3]
20-1C-W	BD-C1016A090K	TW PANEL FRONT BLK AC-M512-W [INCL. 2,3]
20-1D-B	BD-C1016A090D	TW PANEL FRONT BLK AC-M512L-B [INCL. 2,3]
20-1D-W	BD-C1016A090L	TW PANEL FRONT BLK AC-M512L-W [INCL. 2,3]
20-2A-B	BD-B500410C	TW PANEL LID 312L-B PART
20-2A-W	BD-B500410S	PANEL LID 312L-W PART (TW)
20-2B-B	BD-B500410G	TW PANEL LID 512L-B PART
20-2B-W	BD-B500410U	PANEL LID 512L-W PART (TW)
20-3A-B	BD-500410D	PANEL LID 312R-B (TW)
20-3A-W	BD-500410T	PANEL LID 312R-W (TW)
20-3B-B	BD-500410H	PANEL LID 512R-B (TW)
20-3B-W	BD-500410V	PANEL LID 512R-W (TW)
20-4	ZG-336615	SP PLATE CASSETTE HOLDER (B)
20-5	ZG-500384	SP TORSION LID (TW)
20-6	MC-500465	COUNTER T3SG100-130B1-789 (TW)
20-7	ZS-336614	PT PAN26X08STL CMT [COUNTER FIX]
20-8	EV-366674	VR SPL 6THROW V JK252-5G(6)
20-9	ZS-331875	PT BR30X12STL CMT [G. EQ VR FIX]
20-10-B	SK-B362413A2	KNOB VOLUME-B PART [BLACK]
20-10-W	SK-B362413A1	KNOB VOLUME PART [WHITE]
20-11-B	SK-500417B	KNOB DUBBING (B) (TW) [BLACK][AC-M512]
20-11-W	SK-500417C	KNOB DUBBING(W) (TW) [WHITE][AC-M512]
20-12-B	SK-500409B	KNOB DOLBY (B) (TW) [BLACK]
20-12-W	SK-500409D	KNOB DOLBY(W) (TW) [WHITE]
20-13-B	SB-358882C-A	BUTTON PUSH(3) [BLACK]
20-13-W	SK-500423D	KNOB POW(W) (TW) [WHITE]
20-14-B	SK-500412B	KNOB FUNCTION (B) (TW) [BLACK]
20-14-W	SK-500412D	KNOB FUNCTION(W) (TW) [WHITE]
20-15-B	SK-500415B	KNOB MEMORY (B) (TW) [BLACK]
20-15-W	SK-500415C	KNOB MEMORY(W) (TW) [WHITE]
20-16	ZG-500388	SP PUSH MEMORY (TW)
20-17-B	SP-500372B	COVER (B) (TW) [BLACK]
20-17-W	SP-500372C	COVER (W) (TW) [WHITE]
20-18	ZS-322580	ST BID40X08STL BNI
20-19	ZS-498273	T2BR30X08STL CMT PW080 [FRONT PANEL FIX]
20-20	ZS-308846	T2BR30X08STL BZN PROJECTION
20-21	ZS-447840	T2BR30X08STL CMT

SYMBOL FOR COLOR VARIATION

B : BLACK
W : WHITE

21. ACCEAASRY

Ref. No.	Part No.	Description
21-1	EE-373213	ANT LOOP AC-M312
21-2	EE-315329	ANT DIPOLE SAE-010
21-3	EJ-352118	SOCKET COAX PAL B2-714P-900
21-4	AX-500546	REMOCON ∗C1017 WIRELESS-B (TW) [AC-M512 ONLY]

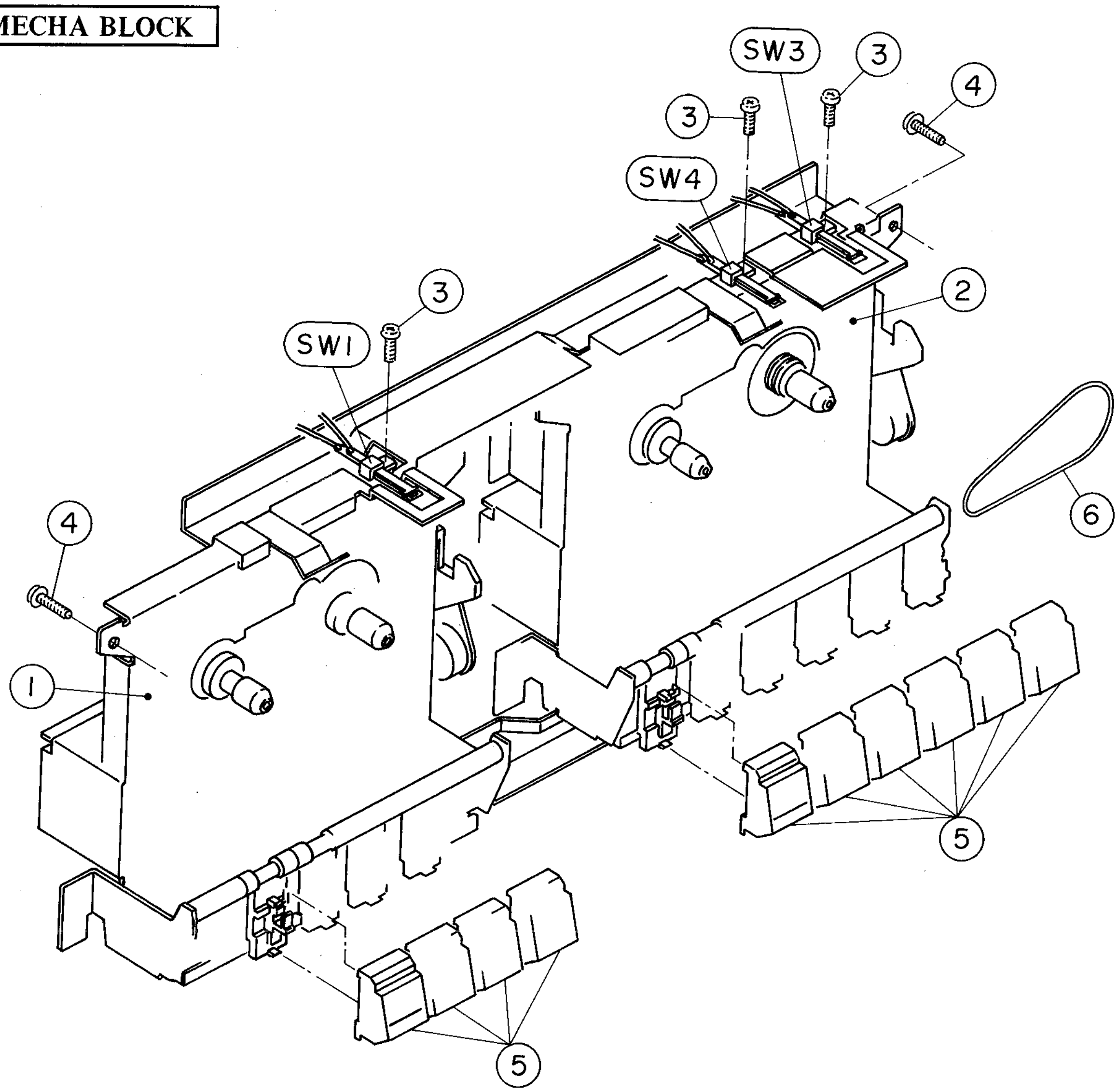


MODEL AC-A510/L

1. RECOMMENDED SPARE PARTS

Ref. No.	Part No.	Description
1	AX-500546	REMOCON *C1017 WIRELESS-B (TW)
2	BB-500471	MECHA AKI-052FMB BLK (TW)
3	BB-500472	MECHA AKI-053FMB BLK (TW)
4	BF-720036	FLYWHEEL ASSY
5	BM-720046	MOTOR AC-M512
6	BM-720050	MOTOR AC-M312
7	BR-720032	SUPPLY REEL TABLE BLK AC-M312
8	BR-720034	TAKE-UP REEL TABLE BLK AC-M312
9	*BT-500438	TRANS POWER C1017-U
10	*BT-500439	TRANS POWER C1017-C
11	*BT-500440	TRANS POWER C1017-E,V
12	*BT-500441	TRANS POWER C1017-B,S
13	*BT-500831	TRANS POW C1017-Y7
14	BZ-720035	CLUTCH ASSY BLK AC-M312
15	BZ-720037	PINCH ROLLER ARM ASSY
16	ED-355426	D LED PR-5705S-B7 RED
17	ED-373169	D LED SLP-336C-20 GREEN
18	ED-365107	D LED SLP-384C-50 GREEN
19	ED-360409	D PHOTO PN323B
20	*ED-348200	D SILICON DBA20C-K15 200/2.0A
21	*ED-350748	D SILICON DBA60C-K15 200/1.0A
22	*ED-357754	D SILICON DS135D 200/1.0A
23	ED-301911	D SILICON H DS448
24	ED-344280	D SILICON H GMA-01-FY2 F05
25	ED-349448	D VARACTOR 1SV147
26	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
27	ED-337267	D ZENER H HZ4 A1
28	ED-319167	D ZENER H HZ6 C3
29	ED-321180	D ZENER H HZ9 B2
30	ED-346538	D ZENER H HZ9L A2
31	ED-346551	D ZENER H HZ11L B3
32	ED-367552	D ZENER H HZS15J B1 F05
33	EE-F0131E010A	TW PC FRONT END BLK FE31(U)
34	EE-F0141E010B	TW PC FRONT END BLK FE41(V) [V]
35	*EF-306950	FUSE TSC A 250V 2.00A [U,Y7]
36	*EF-306952	FUSE TSC A 250V 4.00A [U,Y7]
37	*EF-308847	FUSE TSC 125V 1.60A [C]
38	*EF-323080	FUSE TSC 125V 3.15A [C]
39	*EF-306957	FUSE TSC 125V 4.00A [C]
40	*EF-346115	FUSE TSC 125V 6.30A [C]
41	*EF-623125	FUSE SEMKO T 250V 2.50A [E,V,S]
42	*EF-249851	FUSE SEMKO T 250V 5.00A [E,V,S]
43	*EF-364518	FUSE BET T 250V 2.50A [B]
44	*EF-355399	FUSE BET T 250V 5.00A [B]
45	EH-344434	FILTER CE BFU450C4N 0.450MHZ
46	EH-355568	FILTER CE SFE10.7MS2G-A
47	EH-338338	FILTER CE SFE10.7MS3GK-A
48	EH-336776	FILTER DB D07003K 100KHZ
49	EH-360924	FILTER LC BP BPMB6A
50	EH-501321	FILTER LC LP L351Y015(FB-7DG)
51	EH-501323	FILTER LC LP L351Y016(FB-7DG)
52	EI-369608	IC BA3416BL
53	EI-373214	IC HA12086
54	EI-361624	IC LA1265
55	EI-359053	IC LA3600
56	EI-345551	IC LB1403
57	EI-351569	IC LC4001B
58	EI-366767	IC LM6416E-1976
59	EI-346071	IC M5218L-21
60	EI-349719	IC M5218P
61	EI-344764	IC M5218P-21
62	*EI-366695	IC STK4172II
63	EI-359683	IC TA7343AP
64	EI-304657	IC TC4011BP
65	EI-332259	IC TC4052BP
66	EI-363289	IC TC9172
67	EI-351966	IC TC9176P
68	EI-363290	IC TC9302AF-011-BS
69	EI-367271	IC UPC1490HA
70	EI-337017	OSC CE CSB800A 0.800000MHZ
71	EI-344422	OSC X'TAL HC-18/U 7.200MHZ
72	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
73	EJ-373203	TERMINAL LEVER SQ2743#10
74	EM-361644	IND LCD 9419P
76	*ER-319455	R FUSE H S10 ERD2FC 1/4W 10R0G
77	ES-720041	SW LEAF LSA-1119F
78	ES-717768	SW LEAF LSA-1119R-1
79	ES-366789	SW LEAF LSA-1132EAU
80	ES-364176	SW PUSH SPPH11 2-02-02N
81	ES-361797	SW PUSH SDDLD1 1-01
82	*ES-349070	SW SELECTOR YKS11-0002 02-4 [U]
83	ES-363292	SW SLIDE 00120156 01-2
84	ES-501047	SW SLIDE J-S5029#01 02-02N
85	ES-349474	SW TACT SKHHAM004A
86	ET-363953	TR DTA114TS
87	ET-360399	TR DTC114TS
88	ET-336869	TR 2SC2999 C,D
89	ET-349449	TR FET 2SK161 O,Y
90	ET-337759	TR FET 2SK246 GR
91	ET-353899	TR 2SA1317 S,T,U
92	ET-355626	TR 2SA992 E,F
93	ET-373210	TR 2SB1187 E,F
94	ET-347143	TR 2SC1845 E,F
95	ET-308977	TR 2SC2274K F F05
96	ET-338410	TR 2SC2878 A,B
97	ET-360067	TR 2SC3330 T,U F05
98	ET-360137	TR 2SC3330 U,V F05
99	ET-351872	TR 2SC3383 R,S
100	ET-350795	TR 2SC3399 F05
101	ET-349592	TR 2SC3400 F05
102	ET-349366	TR 2SC3402 F05
103	ET-328265	TR 2SC930 F
104	ET-338324	TR 2SD1012-V H F05
105	ET-310148	TR 2SD612K E,F
106	EV-366674	VR SPL 6THROW V JK252-5G(6)
107	EV-366768	VR ROTARY V12L5GS256F3B100KX2
108	EZ-366626	BATTERY LITHIUM BR2032-1VC
109	HE-720049	HEAD E
110	HP-720048	HEAD R/P
111	HP-720051	HEAD R/P
112	MB-500390	BELT (TW)
113	MB-720039	BELT AUTO
114	MB-720042	BELT DRIVE
115	MB-720040	BELT FR
116	MC-500465	COUNTER T3SG100-130B1-789 (TW)

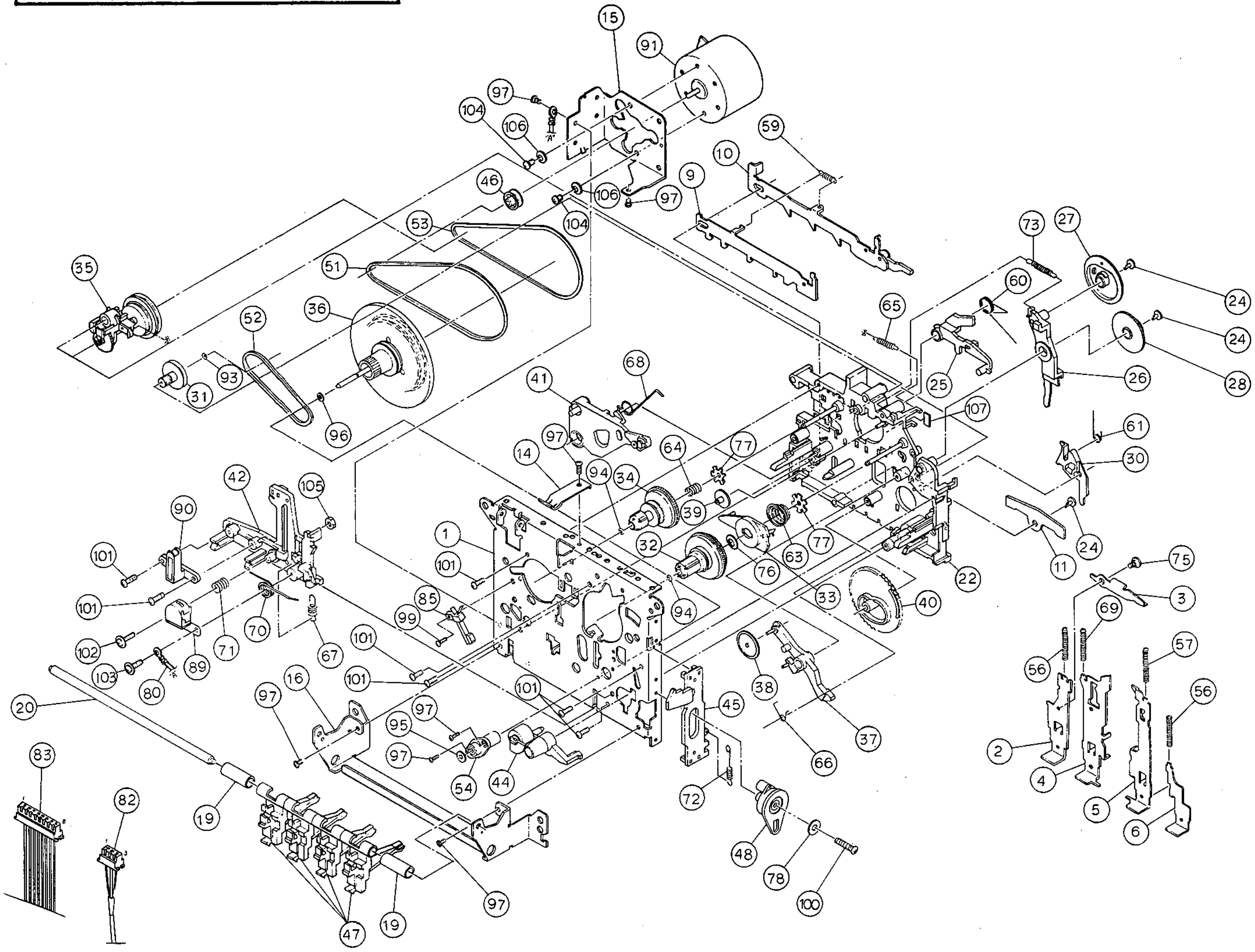
MECHA BLOCK



2. MECHA BLOCK

Ref. No.	Part No.	Description
2-1	BB-500472	MECHA AKI-053FMB BLK (TW)
2-2	BB-500471	MECHA AKI-052FMB BLK (TW)
2-SW1	ES-366789	SW LEAF LSA-1132EAU [TAPE 1 70U]
2-SW3	ES-366789	SW LEAF LSA-1132EAU [TAPE 2 70U]
2-SW4	ES-366789	SW LEAF LSA-1132EAU [TAPE 2 METAL]
2-3	ZS-201275	ST PAN26X06STL CMT [LEAF SW FIX]
2-4	ZS-323993	PT BR30X10STL CMT [MECHA BLOCK FIX]
2-5-B	SK-500406B	KNOB OPERATION (B) (TW)
2-6	MB-500390	BELT (TW) [COUNTER BELT]

TAPE I MECHA BLOCK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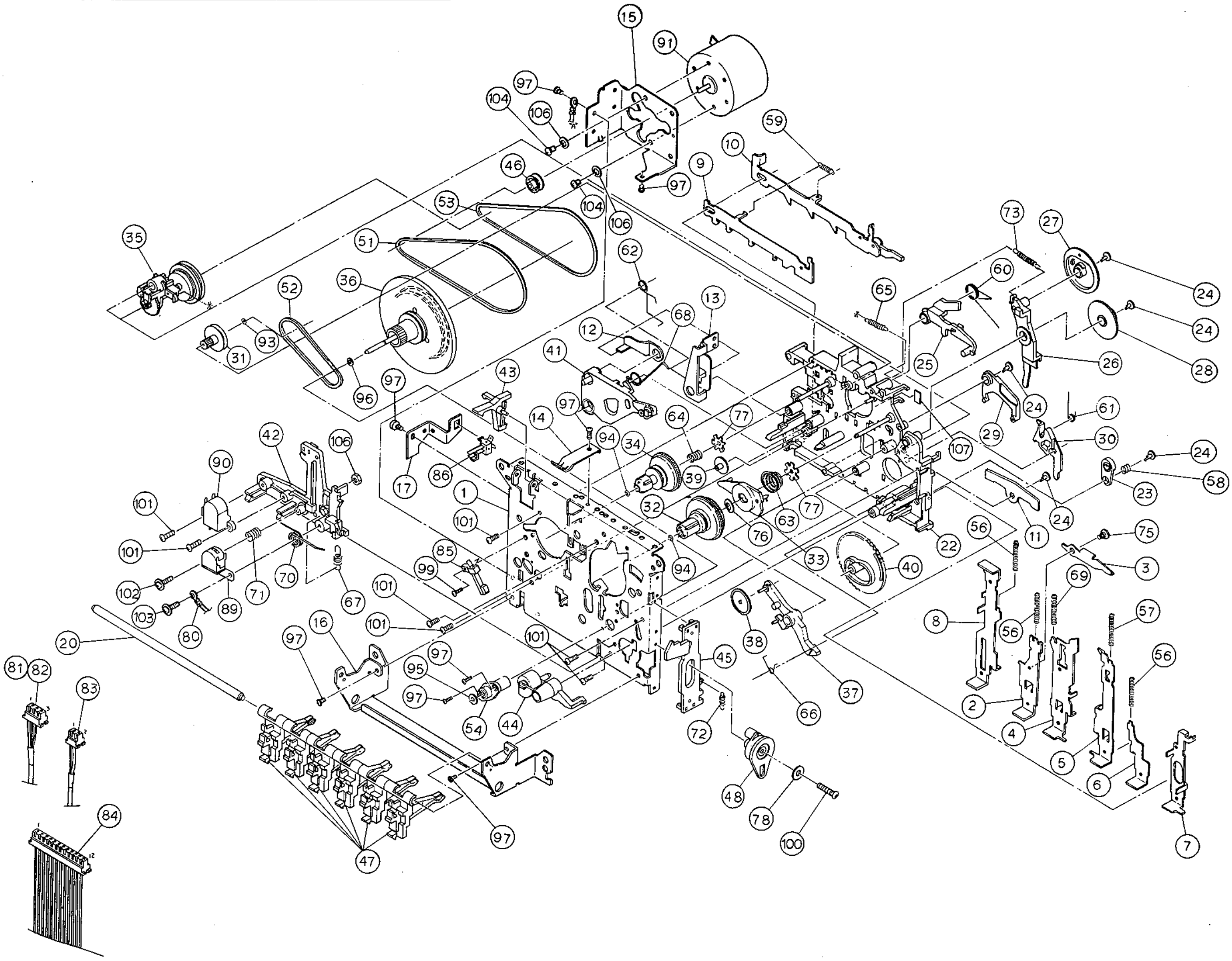
3. TAPE I MECHA BLOCK

Ref. No.	Part No.	Description
3-32	BR-720034	TAKE-UP REEL TABLE BLK AC-M312
3-34	BR-720032	SUPPLY REEL TABLE BLK AC-M312
3-35	BZ-720035	CLUTCH ASSY BLK AC-M312
3-36	BF-720036	FLYWHEEL ASSY
3-44	BZ-720037	PINCH ROLLER ARM ASSY
3-51	MB-720042	BELT DRIVE
3-52	MB-720039	BELT AUTO
3-53	MB-720040	BELT FR
3-85	ES-720041	SW LEAF LSA-1119F [SW2 MUTE]
3-89	HP-720051	HEAD R/P [H901]
3-91	BM-720046	MOTOR AC-M512

TAPE II MECHA BLOCK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4. TAPE II MECHA BLOCK

Ref. No.	Part No.	Description
4-32	BR-720034	TAKE-UP REEL TABLE BLK AC-M312
4-34	BR-720032	SUPPLY REEL TABLE BLK AC-M312
4-35	BZ-720035	CLUTCH ASSY BLK AC-M312
4-36	BF-720036	FLYWHEEL ASSY
4-44	BZ-720037	PINCH ROLLER ARM ASSY
4-51	MB-720042	BELT DRIVE
4-52	MB-720039	BELT AUTO
4-53	MB-720040	BELT FR
4-85	ES-720041	SW LEAF LSA-1119F [SW5 MUTE]
4-86	ES-717768	SW LEAF LSA-1119R-1 [SW6 REC]
4-89	HP-720048	HEAD R/P [H902]
4-90	HE-720049	HEAD E [H903]
4-91	BM-720050	MOTOR AC-M312

5. P.C BOARD BLOCK

Ref. No.	Part No.	Description
5-1A	BA-C1020A070A	TW PC BASE(510)BLK AC-A510(U) [U,Y7]
5-1B	BA-C1020A070B	TW PC BASE(510)BLK AC-A510(C) [C]
5-1C	BA-C1020A070C	TW PC BASE(510)BLK AC-A510(E) [E]
5-1D	BA-C1020A070D	TW PC BASE(510) BLK AC-A510(V) [V]
5-1E	BA-C1020A070E	TW PC BASE(510)BLK AC-A510(S) [S]
5-1F	BA-C1020A070F	TW PC BASE(510)BLK AC-A510L [E,V]
5-2A	EE-F0131E010A	TW PC FRONT END BLK FE31(U) [U,Y7,C,E,S]
5-2B	EE-F0141E010B	TW PC FRONT END BLK FE41(V) [V]
5-3A	BA-C1017A030A	TW PC#DECK(512) BLK AC-M512(U) [U,Y7]
5-3B	BA-C1017A030B	TW PC# DECK(512)BLK AC-M512(C) [C]
5-3C	BA-C1017A030C	TW PC#DECK(512)BLK AC-M512(E) [E,S]
5-3D	BA-C1017A030D	TW PC#DECK(512)BLK AC-M512(V) [V]
5-3E	BA-C1017A030E	TW PC#DECK(512)BLK AC-M512L
5-4A	BA-C1017A020A	TW PC#MAIN(512)BLK AC-M512(U) [U,Y7]
5-4B	BA-C1017A020B	TW PC#MAIN(512)BLK AC-M512(C) [C]
5-4C	BA-C1017A020C	TW PC#MAIN(512)BLK AC-M512(E) [E,S]
5-4D	BA-C1017A020D	TW PC#MAIN(512)BLK AC-M512(V) [V]
5-4E	BA-C1017A020E	TW PC#MAIN(512)BLK AC-M502L(B)
5-5	BA-C1016A040C	TW PC# CONTROL(A)BLK AC-A510

PC (#) DECK BLK CONSISTS OF FOLLOWING P.C BOARD.

- DECK P.C BOARD
- DOLBY SW P.C BOARD
- BEAT SW P.C BOARD
- LCD P.C BOARD

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN P.C BOARD
- DOLBY SW P.C BOARD
- POWER SW P.C BOARD
- HEADPHONE P.C BOARD
- ENCODER VOLUME P.C BOARD

PC (#) CONTROL BLK CONSISTS OF FOLLOWING P.C BOARD.

- CONTROL P.C BOARD
- DETECTOR P.C BOARD
- MEMORY SW P.C BOARD

6. BASE P.C BOARD

Ref. No.	Part No.	Description
6-D1	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
6-D2	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
6-D3	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D4	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D5	ED-344280	D SILICON H GMA-01-FY2 F05
6-D6	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D7	ED-344280	D SILICON H GMA-01-FY2 F05 [L ONLY]
6-D8	ED-321180	D ZENER H HZ9 B2
6-D9	ED-344280	D SILICON H GMA-01-FY2 F05 [U,Y7]
6-D10	ED-301911	D SILICON H DS448
6-D11	ED-319167	D ZENER H HZ6 C3
6-D101	ED-344280	D SILICON H GMA-01-FY2 F05
6-D102	ED-344280	D SILICON H GMA-01-FY2 F05
6-D103	ED-344280	D SILICON H GMA-01-FY2 F05
6-D104	ED-344280	D SILICON H GMA-01-FY2 F05
6-D105	ED-344280	D SILICON H GMA-01-FY2 F05
6-D106	ED-346538	D ZENER H HZ9L A2
6-D107	ED-346538	D ZENER H HZ9L A2
6-D201	ED-344280	D SILICON H GMA-01-FY2 F05
6-FL1	EH-355568	FILTER CE SFE10.7MS2G-A [U,C,E,S,Y7]
6-FL1A	EH-338338	FILTER CE SFE10.7MS3GK-A [V]
6-FL2	EH-355568	FILTER CE SFE10.7MS2G-A
6-FL3	EH-344434	FILTER CE BFU450C4N 0.450MHZ
6-FL4	EH-501321	FILTER LC LP L351Y015(FB-7DG)
6-FL5	EH-501321	FILTER LC LP L351Y015(FB-7DG)
6-FL6	EH-501323	FILTER LC LP L351Y016(FB-7DG) [V]
6-FL7	EH-360924	FILTER LC BP BPMB6A [V]
6-IC1	EI-361624	IC LA1265
6-IC2	EI-359683	IC TA7343AP
6-IC3	EI-363289	IC TC9172
6-IC101	EI-344764	IC M5218P-21
6-IC102	EI-332259	IC TC4052BP
6-IC103	EI-349719	IC M5218P
6-IC201	EI-351966	IC TC9176P
6-IC202	EI-349719	IC M5218P
6-IC301	EI-332259	IC TC4052BP
6-J101	EJ-501350	PIN J PCB-204S P 4P [CD/PHONO IN]
6-J103	EJ-373207	SOCKET INLET HEC0470-01-250 [POWER SUPPLY]
6-L101	EO-325760	COIL FIX 1 LAL04 330K [V]
6-R13	ER-324184	R CB H S10 FS RDS 1/4W 121J
6-R23	ER-333406	R CB H S10 FS RDS 1/4W 363J
6-R35	ER-367512	R CB H S12 FS RDS 1/2W 121J
6-R57	ER-306805	R CB H S15 FS RDS 1/2W 101J
6-R83	ER-321192	R OMF H S20 FS 2W 101J
6-SW1	ES-363292	SW SLIDE 00120156 01-2 [AM STEPE U,Y7]
6-TM1	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P [ANTENNA]
6-TR1	ET-338410	TR 2SC2878 A,B [L ONLY]
6-TR2	ET-349449	TR FET 2SK161 O,Y [L ONLY]
6-TR4	ET-328265	TR 2SC930 F
6-TR5	ET-360137	TR 2SC3330 U,V F05
6-TR6	ET-351872	TR 2SC3383 R,S
6-TR7	ET-360137	TR 2SC3330 U,V F05
6-TR8	ET-351872	TR 2SC3383 R,S
6-TR9	ET-353899	TR 2SA1317 S,T,U
6-TR10	ET-353899	TR 2SA1317 S,T,U

Ref. No.	Part No.	Description
6-TR11	ET-360137	TR 2SC3330 U,V F05 [L ONLY]
6-TR12	ET-360137	TR 2SC3330 U,V F05 [L ONLY]
6-TR13	ET-360137	TR 2SC3330 U,V F05
6-TR14	ET-360137	TR 2SC3330 U,V F05
6-TR15	ET-360137	TR 2SC3330 U,V F05
6-TR16	ET-337759	TR FET 2SK246 GR
6-TR17	ET-351872	TR 2SC3383 R,S
6-TR18	ET-360137	TR 2SC3330 U,V F05
6-TR101	ET-350795	TR 2SC3399 F05
6-TR102	ET-350795	TR 2SC3399 F05
6-TR103	ET-350795	TR 2SC3399 F05
6-TR104	ET-353899	TR 2SA1317 S,T,U
6-TR105	ET-353899	TR 2SA1317 S,T,U
6-TR106	*ET-360067	TR 2SC3330 T,U F05
6-TR107	*ET-353899	TR 2SA1317 S,T,U
6-T1	EO-356732	COIL IFT BCFLZ-450A
6-T2	EO-501338	COIL VARI 2 Y36(CSM-10C)
6-T3	EO-501339	COIL VARI 2 Y037(SM-10C) [L ONLY]
6-T4	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
6-T5	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH [L ONLY]
6-T6	EO-373196	COIL DET 2 195AEA-1133FGL
6-T7	EO-373197	COIL DET 2 YTKAEAS-35879X
6-VC1	EC-363329	C S-FIX H CTC-64-010 2.5-10
6-VC1A	EC-363331	C S-FIX H CTC-6U-030 5.5-30 [L ONLY]
6-VC2	EC-363331	C S-FIX H CTC-6U-030 5.5-30 [L ONLY]
6-VR1	EV-367499	R S-FIX H V6EKPV(1S) 3P 472
6-VR2	EV-367499	R S-FIX H V6EKPV(1S) 3P 472

7. FRONT END P.C BOARD

Ref. No.	Part No.	Description
7-D1	ED-349448	D VARACTOR 1SV147
7-D2	ED-349448	D VARACTOR 1SV147
7-D3	ED-349448	D VARACTOR 1SV147 [V]
7-D4	ED-349448	D VARACTOR 1SV147
7-L1	EO-349461	COIL FIX 2 LINK
7-L2	EO-349462	COIL FIX 2 U147
7-L3	EO-349461	COIL FIX 2 LINK
7-L4	EO-349462	COIL FIX 2 U147
7-L5	EO-349462	COIL FIX 2 U147 [V]
7-L6	EO-359056	COIL FIX 1 LAL03NA 2R2M
7-L7	EO-353687	COIL OSC 2 E525HN-110003
7-TR1	ET-349449	TR FET 2SK161 O,Y
7-TR2	ET-336869	TR 2SC2999 C,D
7-TR3	ET-328265	TR 2SC930 F
7-TR4	ET-349449	TR FET 2SK161 O,Y
7-T1	EO-337640	COIL IFT 119AC-15533X 10.7MHZ

8. DECK P.C BOARD

Ref. No.	Part No.	Description
8-C41	EC-347255	C MC V F05 FM 151J 500DC
8-C55	EC-349631	C PP V F10 ECQ-F 182J 630DC
8-C56	EC-347263	C MC V F05 FM 221J 500DC
8-D1	ED-344280	D SILICON H GMA-01-FY2 F05
8-D2	ED-344280	D SILICON H GMA-01-FY2 F05
8-D3	ED-344280	D SILICON H GMA-01-FY2 F05
8-D4	ED-344280	D SILICON H GMA-01-FY2 F05
8-D5	ED-344280	D SILICON H GMA-01-FY2 F05
8-D6	ED-344280	D SILICON H GMA-01-FY2 F05
8-D7	ED-344280	D SILICON H GMA-01-FY2 F05
8-D8	ED-344280	D SILICON H GMA-01-FY2 F05
8-D9	ED-344280	D SILICON H GMA-01-FY2 F05
8-D10	ED-344280	D SILICON H GMA-01-FY2 F05
8-D11	ED-337267	D ZENER H HZ4 A1
8-D12	ED-346551	D ZENER H HZ11L B3
8-D13	ED-344280	D SILICON H GMA-01-FY2 F05
8-D14	ED-344280	D SILICON H GMA-01-FY2 F05
8-D16	ED-344280	D SILICON H GMA-01-FY2 F05
8-D17	ED-344280	D SILICON H GMA-01-FY2 F05
8-D18	ED-344280	D SILICON H GMA-01-FY2 F05
8-D200	ED-344280	D SILICON H GMA-01-FY2 F05
8-FL1	EH-336776	FILTER DB D07003K 100KHZ
8-FL2	EO-356809	COIL FIX 1 100Z-121 100.00KHZ
8-FL3	EH-336776	FILTER DB D07003K 100KHZ
8-FR1	*ER-200926	R FUSE H S10 ERD2FC 1/4W 27R0G
8-IC1	EI-369608	IC BA3416BL
8-IC2	EI-373214	IC HA12086
8-IC3	EI-346071	IC M5218L-21
8-IC4	EI-304657	IC TC4011BP
8-IC5	EI-304657	IC TC4011BP
8-IC6	EI-304657	IC TC4011BP
8-IC7	EI-351569	IC LC4001B
8-L1	EO-357050	COIL FIX 1 RC875 822J
8-L2	EO-373247	COIL FIX 1 RC875 272J
8-L3	EO-318380	COIL FIX 1 LAL04 271K
8-L4	EO-345931	COIL FIX 1 LAL03KH 221K
8-TR1	ET-360067	TR 2SC3330 T,U F05
8-TR2	ET-347143	TR 2SC1845 E,F
8-TR3	ET-347143	TR 2SC1845 E,F
8-TR4	ET-355626	TR 2SA992 E,F
8-TR5	ET-360067	TR 2SC3330 T,U F05
8-TR6	ET-350795	TR 2SC3399 F05
8-TR7	ET-350795	TR 2SC3399 F05
8-TR8	ET-360067	TR 2SC3330 T,U F05
8-TR9	ET-363953	TR DTA114TS
8-TR10	ET-360067	TR 2SC3330 T,U F05
8-TR11	ET-360067	TR 2SC3330 T,U F05
8-TR12	ET-360067	TR 2SC3330 T,U F05
8-TR13	ET-360067	TR 2SC3330 T,U F05
8-TR14	ET-363953	TR DTA114TS
8-TR15	ET-350795	TR 2SC3399 F05
8-TR16	ET-360067	TR 2SC3330 T,U F05
8-TR17	ET-360067	TR 2SC3330 T,U F05
8-TR18	ET-360067	TR 2SC3330 T,U F05
8-TR19	ET-360067	TR 2SC3330 T,U F05
8-TR20	ET-360067	TR 2SC3330 T,U F05
8-TR21	ET-360067	TR 2SC3330 T,U F05
8-TR22	ET-360067	TR 2SC3330 T,U F05
8-TR23	ET-360067	TR 2SC3330 T,U F05
8-TR24	ET-360067	TR 2SC3330 T,U F05
8-TR25	ET-360067	TR 2SC3330 T,U F05
8-TR26	ET-360067	TR 2SC3330 T,U F05
8-TR27	ET-363953	TR DTA114TS
8-TR28	ET-363953	TR DTA114TS
8-TR29	ET-350795	TR 2SC3399 F05
8-TR30	ET-350795	TR 2SC3399 F05
8-TR31	ET-360067	TR 2SC3330 T,U F05
8-TR32	ET-360067	TR 2SC3330 T,U F05
8-TR33	ET-349366	TR 2SC3402 F05
8-TR34	ET-349366	TR 2SC3402 F05
8-TR35	*ET-310148	TR 2SD612K E,F
8-TR36	ET-363953	TR DTA114TS
8-TR37	ET-360067	TR 2SC3330 T,U F05

Ref. No.	Part No.	Description
8-TR38	ET-360067	TR 2SC3330 T,U F05
8-TR39	ET-350795	TR 2SC3399 F05
8-TR40	ET-363953	TR DTA114TS
8-TR41	ET-308977	TR 2SC2274K F F05
8-TR42	ET-308977	TR 2SC2274K F F05
8-TR43	ET-310148	TR 2SD612K E,F
8-TR44	ET-349366	TR 2SC3402 F05
8-TR45	ET-349366	TR 2SC3402 F05
8-TR46	ET-360067	TR 2SC3330 T,U F05
8-TR47	ET-350795	TR 2SC3399 F05
8-TR48	ET-360399	TR DTC114TS
8-TR49	ET-360399	TR DTC114TS
8-TR50	ET-353899	TR 2SA1317 S,T,U
8-TR51	ET-350795	TR 2SC3399 F05
8-TR52	ET-310148	TR 2SD612K E,F
8-TR53	ET-360067	TR 2SC3330 T,U F05
8-TR54	ET-360067	TR 2SC3330 T,U F05
8-TR55	ET-350795	TR 2SC3399 F05
8-TR60	ET-353899	TR 2SA1317 S,T,U
8-T1	EO-349589	COIL OSC 1 32-5016-12
8-VR1	EV-522663	R S-FIX V V8K1-1 3P 104
8-VR2	EV-522663	R S-FIX V V8K1-1 3P 104
8-VR3	EV-572422	R S-FIX V V8K1-1 3P 203
8-VR4	EV-522663	R S-FIX V V8K1-1 3P 104
8-VR5	EV-522404	R S-FIX V V8K1-1 3P 102
8-VR6	EV-464253	R S-FIX V V8K1-1 3P 202
8-VR7	EV-522404	R S-FIX V V8K1-1 3P 102
8-VR8	EV-464253	R S-FIX V V8K1-1 3P 202

9. DOLBY SW P.C BOARD

Ref. No.	Part No.	Description
9-D1	ED-355426	D LED PR-5705S-B7 RED [REC]
9-SW1	ES-364176	SW PUSH SPPH11 2-02-02N [DOLBY NR]
9-SW2	ES-364176	SW PUSH SPPH11 2-02-02N [DUBBING SPEED]

10. BEAT SW P.C BOARD

Ref. No.	Part No.	Description
10-SW1	ES-501047	SW SLIDE J-S5029#01 02-02N [BEAT SW]

11. LCD P.C BOARD

Ref. No.	Part No.	Description
11-BT1	EZ-366626	BATTERY LITHIUM BR2032-1VC
11-D1	ED-344280	D SILICON H GMA-01-FY2 F05
11-D2	ED-344280	D SILICON H GMA-01-FY2 F05
11-D3	ED-344280	D SILICON H GMA-01-FY2 F05
11-D4	ED-344280	D SILICON H GMA-01-FY2 F05
11-D5	ED-344280	D SILICON H GMA-01-FY2 F05
11-D6	ED-344280	D SILICON H GMA-01-FY2 F05
11-D7	ED-344280	D SILICON H GMA-01-FY2 F05
11-D8	ED-344280	D SILICON H GMA-01-FY2 F05
11-D10	ED-301911	D SILICON H DS448 [L]
11-D11	ED-301911	D SILICON H DS448 [C]
11-IC1	EI-363290	IC TC9302AF-011-BS
11-IN1	EM-361644	IND LCD 9419P
11-IN2	EL-362308	PL CORD 14.0V 80MA L=80
11-TR1	ET-353899	TR 2SA1317 S,T,U [U,Y7]
11-X1	EI-344422	OSC X'TAL HC-18/U 7.200MHZ

12. MAIN P.C BOARD

Ref. No.	Part No.	Description
12-C101	EC-326583	C MMY V CUT CF921 473K 400DC
12-C103	EC-324662	C EC V CUT AS1 222M 25.0DC
12-C107	EC-361665	C EC V CUT 472M 50.0DC
12-C109	EC-361665	C EC V CUT 472M 50.0DC
12-D101	*ED-350748	D SILICON DBA60C-K15 200/1.0A
12-D102	*ED-348200	D SILICON DBA20C-K15 200/2.0A
12-D103	*ED-357754	D SILICON DS135D 200/1.0A
12-D104	ED-301911	D SILICON H DS448
12-D105	ED-301911	D SILICON H DS448
12-D106	ED-301911	D SILICON H DS448
12-D107	ED-367552	D ZENER H HZS15J B1 F05
12-D108	ED-367552	D ZENER H HZS15J B1 F05
12-D109	ED-367552	D ZENER H HZS15J B1 F05
12-D110	ED-367552	D ZENER H HZS15J B1 F05
12-D111	ED-301911	D SILICON H DS448
12-FR108	*ER-319455	R FUSE H S10 ERD2FC 1/4W 10R0G
12-FR109	*ER-319455	R FUSE H S10 ERD2FC 1/4W 10R0G
12-IC101	*EI-366695	IC STK4172II
12-L101	EO-337880	COIL FIX 2 202AK-018 2R2K
12-L102	EO-342936	COIL BALUM
12-R103	ER-337755	R OMF H S20 FS 2W 222J
12-R133	ER-324337	R CB H S10 FS RDS 1/4W 560J
12-R134	ER-322332	R CB H S10 FS RDS 1/4W 8R2J
12-R135	ER-341940	R OMF H S15 FS 1W 100J
12-R136	ER-341940	R OMF H S15 FS 1W 100J
12-TM101	EJ-373203	TERMINAL LEVER SQ2743#10 [SPEAKER]
12-TR101	*ET-366677	TR 2SD1761 E,F
12-TR102	*ET-360067	TR 2SC3330 T,U F05
12-TR103	*ET-366677	TR 2SD1761 E,F
12-TR104	*ET-373210	TR 2SB1187 E,F
12-TR105	*ET-366581	TR 2SD1762 E,F
12-TR106	*ET-360067	TR 2SC3330 T,U F05
12-F6A	*EF-306952	FUSE TSC A 250V 4.00A [U,Y7]
12-F7A	*EF-306952	FUSE TSC A 250V 4.00A [U,Y7]
12-F3B	*EF-346115	FUSE TSC 125V 6.30A [C]
12-F4B	*EF-346115	FUSE TSC 125V 6.30A [C]
12-F5B	*EF-308847	FUSE TSC 125V 1.60A [C]
12-F6B	*EF-306957	FUSE TSC 125V 4.00A [C]
12-F7B	*EF-306957	FUSE TSC 125V 4.00A [C]
12-F3C	*EF-249851	FUSE SEMKO T 250V 5.00A [E,V,S]
12-F4C	*EF-249851	FUSE SEMKO T 250V 5.00A [E,V,S]
12-F5C	*EF-623125	FUSE SEMKO T 250V 2.50A [E,V,S]
12-F6C	*EF-249851	FUSE SEMKO T 250V 5.00A [E,V,S]

Ref. No.	Part No.	Description
12-F7C	*EF-249851	FUSE SEMKO T 250V 5.00A [E,V,S]
12-F3D	*EF-355399	FUSE BET T 250V 5.00A [B]
12-F4D	*EF-355399	FUSE BET T 250V 5.00A [B]
12-F5D	*EF-364518	FUSE BET T 250V 2.50A [B]
12-F6D	*EF-355399	FUSE BET T 250V 5.00A [B]
12-F7D	*EF-355399	FUSE BET T 250V 5.00A [B]

13. POWER SW P.C BOARD

Ref. No.	Part No.	Description
13-C150	*EC-320548	C CE V F 103Z 250AC [U,Y7]
13-C150A	*EC-338411	C CE V FZ 103P 400AC [C]
13-C150B	*EC-338496	C CE V FZ 472P 400AC [E,S,V]
13-L150	*EO-338409	COIL LF FKOB160MH02 250UH [AC-M512L]
13-R150	*ER-356573	R SD ANTI-STATIC 1/2W 225K [C]
13-SW150	*ES-361797	SW PUSH SDDLD1 1-01 [POWER]
13-F1A	*EF-306950	FUSE TSC A 250V 2.00A [U,Y7]
13-F2A	*EF-306950	FUSE TSC A 250V 2.00A [U,Y7]
13-F1B	*EF-323080	FUSE TSC 125V 3.15A [C]
13-F1C	*EF-623125	FUSE SEMKO T 250V 2.50A [E,V,S]
13-F1D	*EF-364518	FUSE BET T 250V 2.50A [B]

14. HEADPHONE P.C BOARD

Ref. No.	Part No.	Description
14-J160	EJ-373208	PHONE J HLJ2318-3040 [PHONES]
14-R160	ER-351221	R OMF H S15 FS 1W 221J

15. ENCODER VOLUME P.C BOARD

Ref. No.	Part No.	Description
15-VR180	EV-366768	VR ROTARY V12L5GS256F3B100KX2 [VOLUME]

16. GRAPHIC EQ P.C BOARD

Ref. No.	Part No.	Description
16-IC1	EI-359053	IC LA3600
16-TR1	ET-338324	TR 2SD1012-V H F05

17. CONTROL P.C BOARD

Ref. No.	Part No.	Description
17-D12	ED-365107	D LED SLP-384C-50 GREEN
17-D13	ED-365107	D LED SLP-384C-50 GREEN
17-D14	ED-365107	D LED SLP-384C-50 GREEN
17-D15	ED-365107	D LED SLP-384C-50 GREEN
17-D16	ED-373169	D LED SLP-336C-20 GREEN
17-D17	ED-373169	D LED SLP-336C-20 GREEN
17-D18	ED-373169	D LED SLP-336C-20 GREEN
17-D19	ED-373169	D LED SLP-336C-20 GREEN
17-D20	ED-301911	D SILICON H DS448
17-IC2	EI-345551	IC LB1403
17-IC4	EI-366767	IC LM6416E-1976
17-L1	EO-345920	COIL FIX 1 LAL03KH 330K
17-R12	ER-321619	R OMF H S15 FS 1W 101J
17-TR2	ET-350795	TR 2SC3399 F05
17-TR3	ET-349592	TR 2SC3400 F05
17-TR4	ET-360137	TR 2SC3330 U,V F05
17-TR5	ET-360137	TR 2SC3330 U,V F05
17-TR6	ET-360137	TR 2SC3330 U,V F05
17-TR7	ET-360137	TR 2SC3330 U,V F05
17-TR8	ET-360137	TR 2SC3330 U,V F05
17-TS1	ES-349474	SW TACT SKHHAM004A
17-TS2	ES-349474	SW TACT SKHHAM004A
17-TS3	ES-349474	SW TACT SKHHAM004A
17-TS4	ES-349474	SW TACT SKHHAM004A
17-TS5	ES-349474	SW TACT SKHHAM004A
17-TS6	ES-349474	SW TACT SKHHAM004A
17-TS7	ES-349474	SW TACT SKHHAM004A
17-TS8	ES-349474	SW TACT SKHHAM004A
17-TS10	ES-349474	SW TACT SKHHAM004A
17-TS11	ES-349474	SW TACT SKHHAM004A
17-TS12	ES-349474	SW TACT SKHHAM004A
17-TS13	ES-349474	SW TACT SKHHAM004A
17-TS14	ES-349474	SW TACT SKHHAM004A
17-TS15	ES-349474	SW TACT SKHHAM004A
17-TS16	ES-349474	SW TACT SKHHAM004A
17-TS17	ES-349474	SW TACT SKHHAM004A
17-X2	EI-337017	OSC CE CSB800A 0.800000MHZ

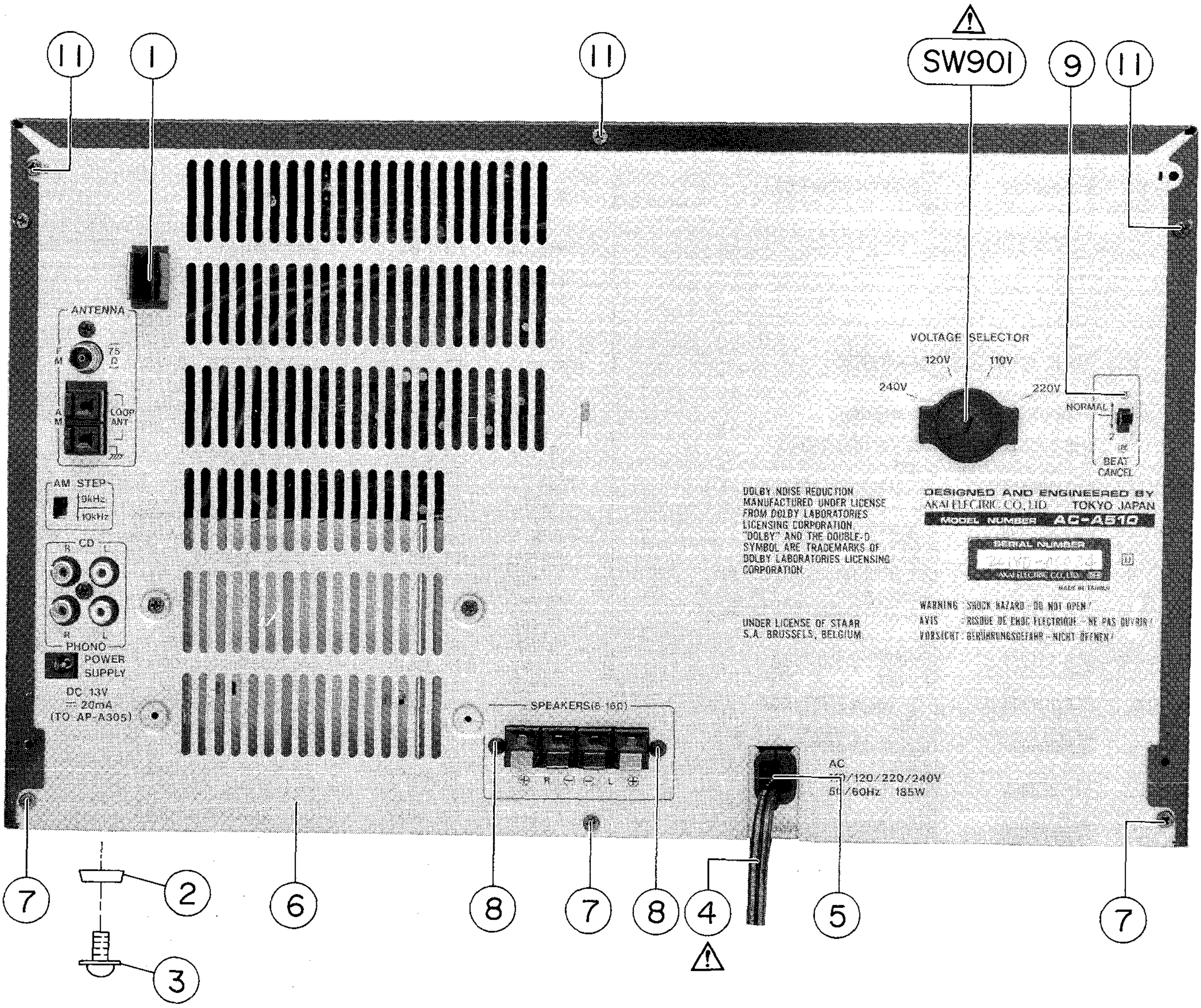
18. DETECTOR P.C BOARD

Ref. No.	Part No.	Description
18-D21	ED-360409	D PHOTO PN323B
18-IC5	EI-367271	IC UPC1490HA

19. MEMORY SW P.C BOARD

Ref. No.	Part No.	Description
19-TS9	ES-349474	SW TACT SKHHAM004A

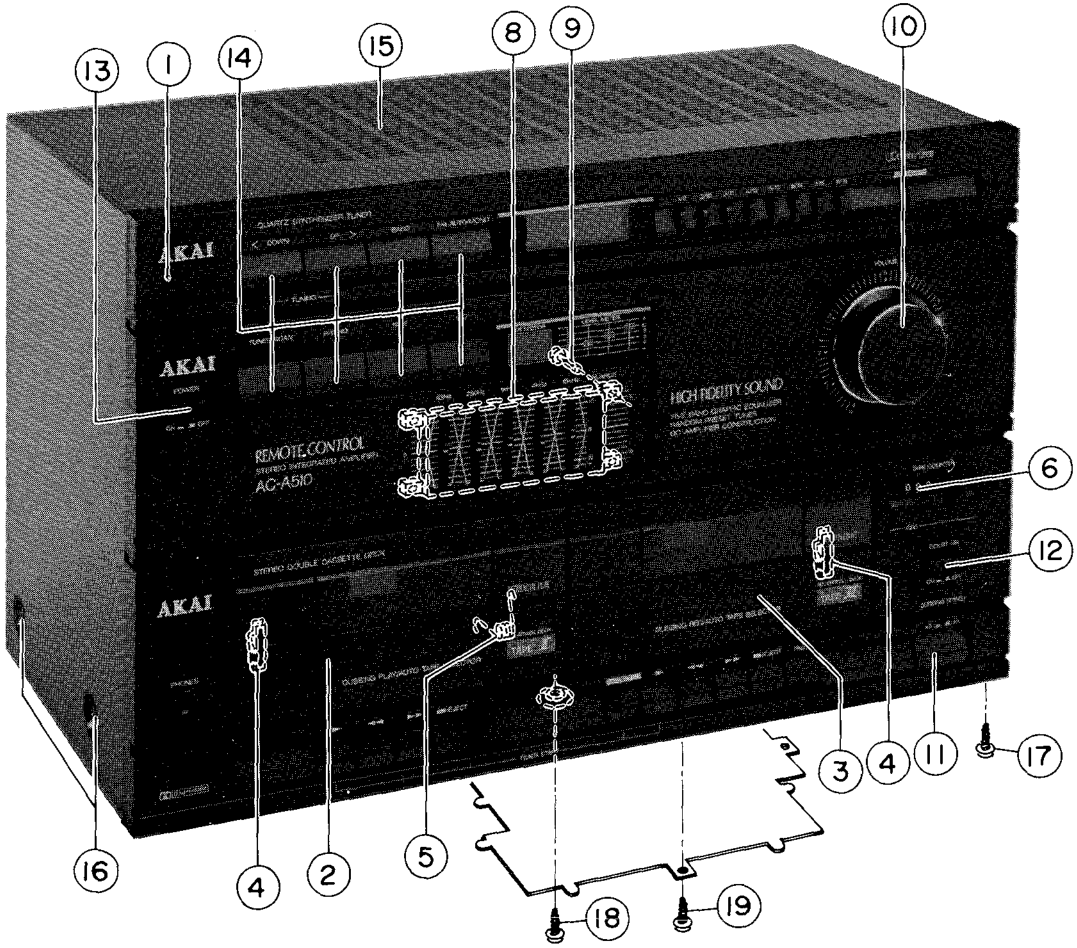
ASSEMBLY BLOCK


11
1
11
SW901
9
11
ANTENNA
FM 75Ω
AM LOOP ANT
AM STEP 9kHz 10kHz
CD
PHONO
POWER SUPPLY
DC 13V 20mA (TO AP-A305)
VOLTAGE SELECTOR
120V
110V
240V
220V
NORMAL
BEAT CANCEL
DOLBY NOISE REDUCTION MANUFACTURED UNDER LICENSE FROM DOLBY LABORATORIES LICENSING CORPORATION. "DOLBY" AND THE DOUBLE-D SYMBOL ARE TRADEMARKS OF DOLBY LABORATORIES LICENSING CORPORATION.
DESIGNED AND ENGINEERED BY AKAI ELECTRIC CO., LTD. TOKYO JAPAN
MODEL NUMBER AC-A510
SERIAL NUMBER
UNDER LICENSE OF STAAR S.A. BRUSSELS, BELGIUM
WARNING : SHOCK HAZARD - DO NOT OPEN!
AVIS : RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR!
VORSICHT : GERÜHRUNGSGEFAHR - NICHT ÖFFNEN!
SPEAKERS(6-16Ω)
R L
AC 110/120/220/240V 50/60Hz 185W
7
2
3
6
8
7
8
4
5
7

20. ASSEMBLY BLOCK

Ref. No.	Part No.	Description
20-1	SZ-362273	HOLDER ANTENNA (2)
20-2	SA-349332	FOOT
20-3	ZS-498273	T2BR30X08STL CMT PW080
20-4A	*EW-374894	AC CORD 2C VM-0129A,VFF U/T [U]
20-4B	*EW-367500	AC CORD200 KP10WSPT2 UC [C]
20-4C	*EW-347897	AC CORD 2 CORES VM0364,LCFL EV [E,V]
20-4D	*EW-347898	AC CORD 2 CORES VM-0436,LCFL S [S]
20-4E	*EW-347025	AC CORD 2 CORES LTBS-2F B [B]
20-4F	*EW-368470	AC CORD200 KP8H LTCE B Y7 [Y7]
20-5	*EZ-371605	BUSH CORD 2271
20-6A	SP-500353A	PANEL REAR AC-A510(U) (TW)
20-6B	SP-500353B	PANEL REAR AC-A510(C) (TW)
20-6C	SP-500353C	PANEL REAR AC-A510(E,V) (TW)
20-6D	SP-500353D	PANEL REAR AC-A510(S) (TW)
20-6E	SP-500353E	PANEL REAR AC-A510L(E) (TW)
20-6F	SP-500353F	PANEL REAR AC-A510L(B) (TW)
20-6G	SP-500353J	PANEL REAR AC-A510(Y7) (TW)
20-7	ZS-308846	T2BR30X08STL BZN PROJECTION
20-8	ZS-351886	PT BR30X10STL BNI
20-9	ZS-460440	PAN20X04STL CMT
20-SW901	*ES-349070	SW SELECTOR YKS11-0002 02-4 [U,Y7]
20-T901A	*BT-500438	TRANS POWER C1017-U
20-T901B	*BT-500439	TRANS POWER C1017-C
20-T901C	*BT-500440	TRANS POWER C1017-E,V
20-T901D	*BT-500441	TRANS POWER C1017-B,S
20-T901E	*BT-500831	TRANS POW C1017-Y7
20-10	ZS-314702	ST BID40X10STL CMT [TRANS FIX]
20-11	ZS-308846	T2BR30X08STL BZN PROJECTION

FINAL ASSEMBLY BLOCK



21. FINAL ASSEMBLY BLOCK

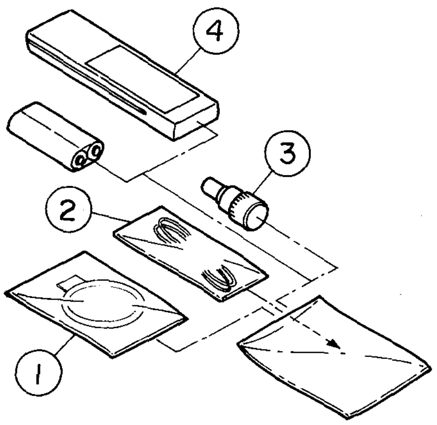
Ref. No.	Part No.	Description
21-1A-B	BD-C1016A090F	TW PANEL FRONT BLK AC-A510-B [INCL. 2,3]
21-1B-B	BD-C1016A090G	TW PANEL FRONT BLK AC-A510L-B [INCL. 2,3]
21-2-B	BD-500410L	PANEL LID 510L-B (TW)
21-3-B	BD-500410M	PANEL LID 510R-B (TW)
21-4	ZG-336615	SP PLATE CASSETTE HOLDER (B)
21-5	ZG-500384	SP TORSION LID (TW)
21-6	MC-500465	COUNTER T3SG100-130B1-789 (TW)
21-7	ZS-336614	PT PAN26X08STL CMT [COUNTER FIX]
21-8	EV-366674	VR SPL 6THROW V JK252-5G(6)
21-9	ZS-331875	PT BR30X12STL CMT [G. EQ VR FIX]
21-10-B	SK-500364B	KNOB VR (B) (TW)
21-11-B	SK-500363B	KNOB DUBBING (B) (TW)
21-12-B	SK-500409B	KNOB DOLBY (B) (TW)
21-13-B	SB-358882C-A	BUTTON PUSH(3)
21-14-B	SK-500412B	KNOB FUNCTION (B) (TW)
21-15-B	SP-500355B	COVER (B) (TW)
21-16	ZS-322580	ST BID40X08STL BNI
21-17	ZS-498273	T2BR30X08STL CMT PW080
21-18	ZS-308846	T2BR30X08STL BZN PROJECTION
21-19	ZS-447840	T2BR30X08STL CMT

SYMBOL FOR COLOR VARIATION

B : BLACK

22. ACCESSARY

Ref. No.	Part No.	Description
22-1	EE-373213	ANT LOOP AC-M312
22-2	EE-315329	ANT DIPOLE SAE-010
22-3	EJ-352118	SOCKET COAX PAL B2-714P-900
22-4	AX-500546	REMOCON ＊C1017 WIRELESS-B (TW)



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ABBREVIATIONS FOR SERVICE MANUAL (CASSETTE)

Abbreviation	Explanation	Abbreviation	Explanation
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Tuning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPsTan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuance	R CH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECord (RECording)
CS	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETector	SEC	SECond
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQualizer	SEPP	Single Ended Push Pull
FF (or F.FWD)	Fast Forward	SIG	SIGnal
FLD	FLuorescent Display	SPECT	SPECTrum
FREQ	FREQuency	STD	STanDard
FWD	ForWarD	SW	SWitch
GND	GrouND	SYSCON	SYStem CONtrol
H	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLume
L	Low	VOLT	VOLTage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitining Diode	X'TAL	cysTAL
MEMO	MEMOry	X1	Normal speed
MICOM	MIcroCOMputer	X2	Dubble speed

ABBREVIATIONS FOR SERVICE MANUAL(TUNER)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	Multi pleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMPalator	PCB	Printed Circuit Board
DET	DETect (DETctor)	PLL	Phase Locked Loop
FLD		Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institut of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emiting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	Crystal

AKAI ELECTRIC CO., LTD.
12-14, 2-Chome, Higashi-Kojiya, Ohta-Ku, Tokyo, Japan
TEL: Tokyo (742) 5111 CABLE: HIFIAKAI TOKYO TELEX: J26261
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AKAI

MIDI COMPONENT SYSTEM

MODEL AC-M312/L
MODEL AC-M512/L

COMPONENT

MODEL AC-A510/L

SCHEMATIC DIAGRAM AND PC BOARDS

TABLE OF CONTENTS

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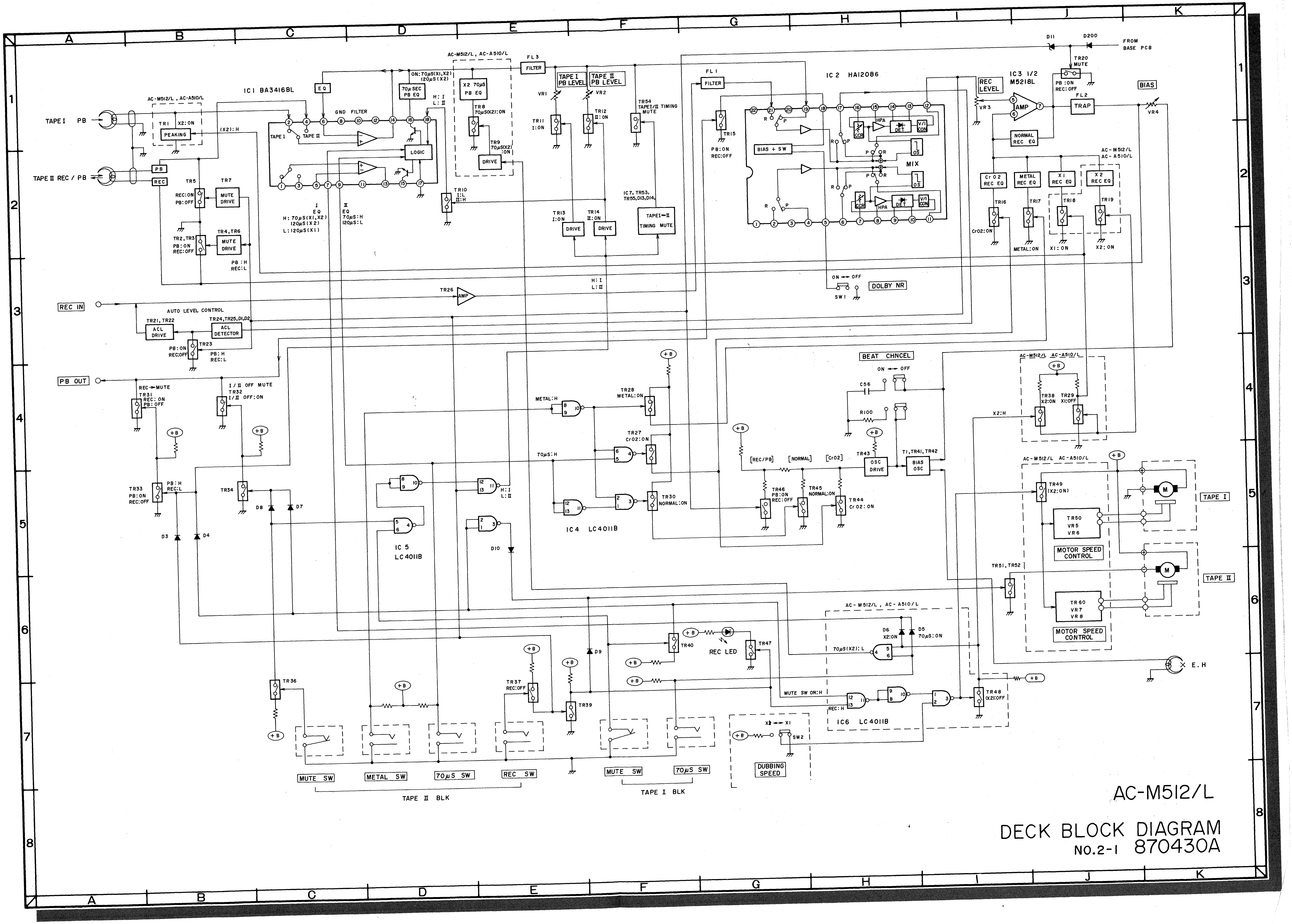
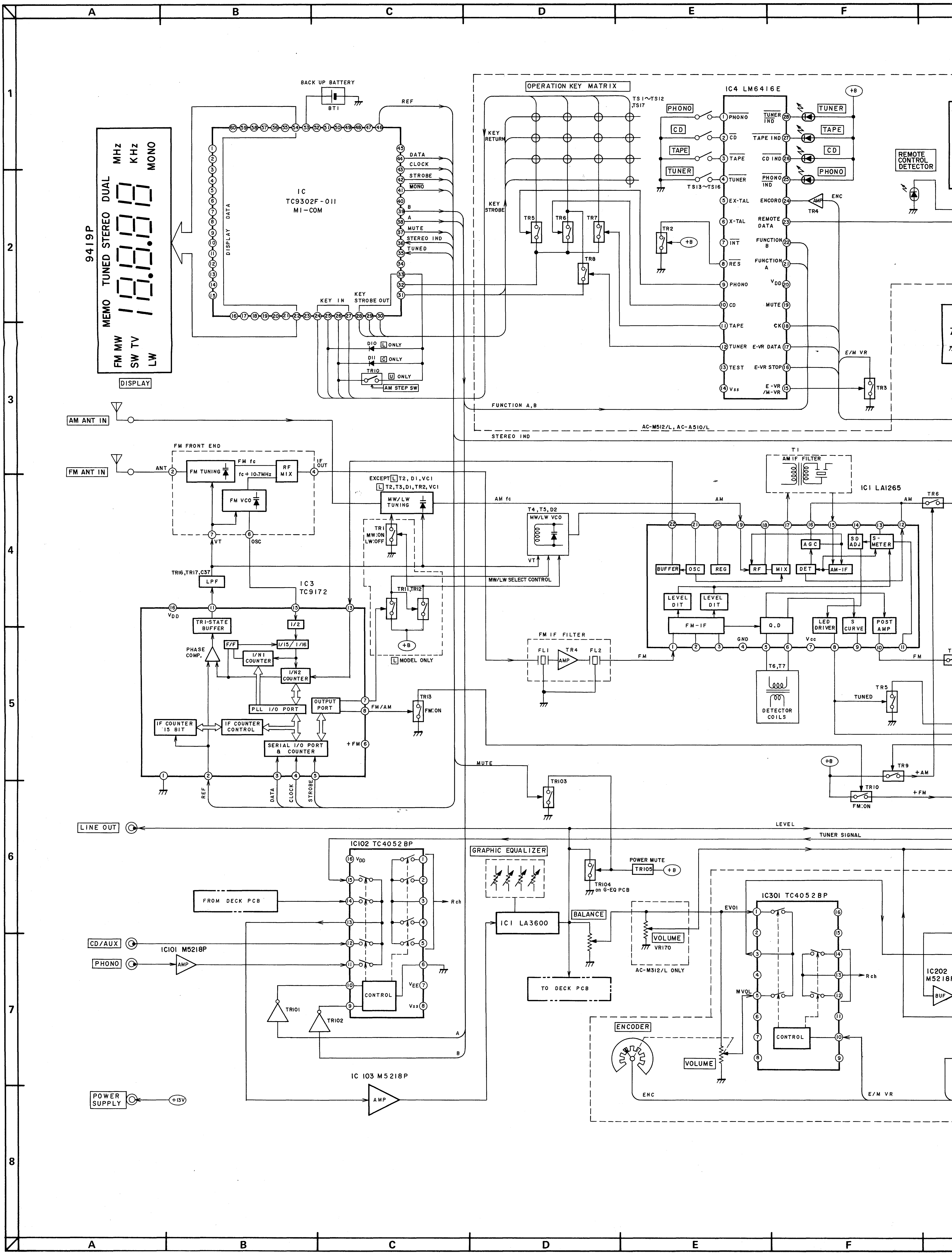

TAPE I PB
TAPE II REC / PB
AC-M512/L , AC-A510/L
TR1 X2: ON
PEAKING
(X2): H
PB
REC
TR5
REC:ON PB:OFF
TR7
MUTE DRIVE
TR2, TR3
PB: ON REC:OFF
TR4, TR6
MUTE DRIVE
PB : H REC: L
IC1 BA3416BL
EQ
GND FILTER
TAPE I
TAPE II
LOGIC
I EQ H: 70μS(X1, X2) 120μS(X2) L: 120μS(X1)
II EQ 70μS: H 120μS: L
ON: 70μS(X1, X2) 120μS(X2)
70μSEC PB EQ
H: I L: II
AC-M512/L, AC-A510/L
X2 70μS PB EQ
TR8 70μS(X2): ON
TR9 70μS(X2) : ON
DRIVE
TR10 I: L II: H
FL3
FILTER
TAPE I PB LEVEL
TAPE II PB LEVEL
VR1
VR2
TR11 I: ON
TR12 II: ON
TR54 TAPEI/II TIMING MUTE
TR13 I: ON
TR14 II: ON
DRIVE
IC7, TR53, TR55, D13, D14
TAPE I↔II TIMING MUTE
H: I L: II
FL1
FILTER
TR15
PB: ON REC: OFF
IC2 HA12086
BIAS + SW
HPA
DET
V/I CON
CCR
MIX
DOLBY NR
ON ↔ OFF
SW1
REC LEVEL
IC3 1/2 M5218L
VR3
AMP
NORMAL REC EQ
D11 D200
FROM BASE PCB
TR20 MUTE
PB: ON REC: OFF
FL2
TRAP
BIAS
VR4
AC-M512/L AC-A510/L
Cr02 REC EQ
METAL REC EQ
X1 REC EQ
X2 REC EQ
TR16 TR17 TR18 TR19
Cr02: ON
METAL: ON
X1: ON
X2: ON
REC IN
TR26
AMP
AUTO LEVEL CONTROL
TR21, TR22
ACL DRIVE
TR24, TR25, D1, D2
ACL DETECTOR
TR23
PB: ON REC: OFF
PB: H REC: L
PB OUT
REC→MUTE
TR31 REC: ON PB: OFF
I / II OFF MUTE
TR32 I/II OFF: ON
TR33 PB: ON REC: OFF
PB: H REC: L
TR34
D3 D4 D7 D8
IC5 LC4011B
H: I L: II
D10
METAL: H
TR28 METAL: ON
TR27 Cr02: ON
70μS: H
TR30 NORMAL: ON
IC4 LC4011B
BEAT CHNCEL
ON ↔ OFF
C56
R100
[REC/PB] [NORMAL] [Cr02]
TR43
OSC DRIVE
T1, TR41, TR42
BIAS OSC
TR46 PB: ON REC: OFF
TR45 NORMAL: ON
TR44 Cr02: ON
AC-M512/L AC-A510/L
TR38 X2: ON
TR29 X1: OFF
X2: H
TR49 (X2: ON)
TR50 VR5 VR6
MOTOR SPEED CONTROL
TAPE I
TR51, TR52
TAPE II
TR60 VR7 VR8
MOTOR SPEED CONTROL
E.H
AC-M512/L , AC-A510/L
D6 X2: ON
D5 70μS: ON
70μS(X2): L
TR40
REC LED
TR47
D9
TR36
TR37 REC: OFF
TR39
MUTE SW ON: H
REC: H
TR48 (X2): OFF
IC6 LC4011B
X2 ↔ X1
SW2
DUBBING SPEED
MUTE SW
METAL SW
70μS SW
REC SW
MUTE SW
70μS SW
TAPE II BLK
TAPE I BLK
+B
A B C D E F G H I J K
1 2 3 4 5 6 7 8

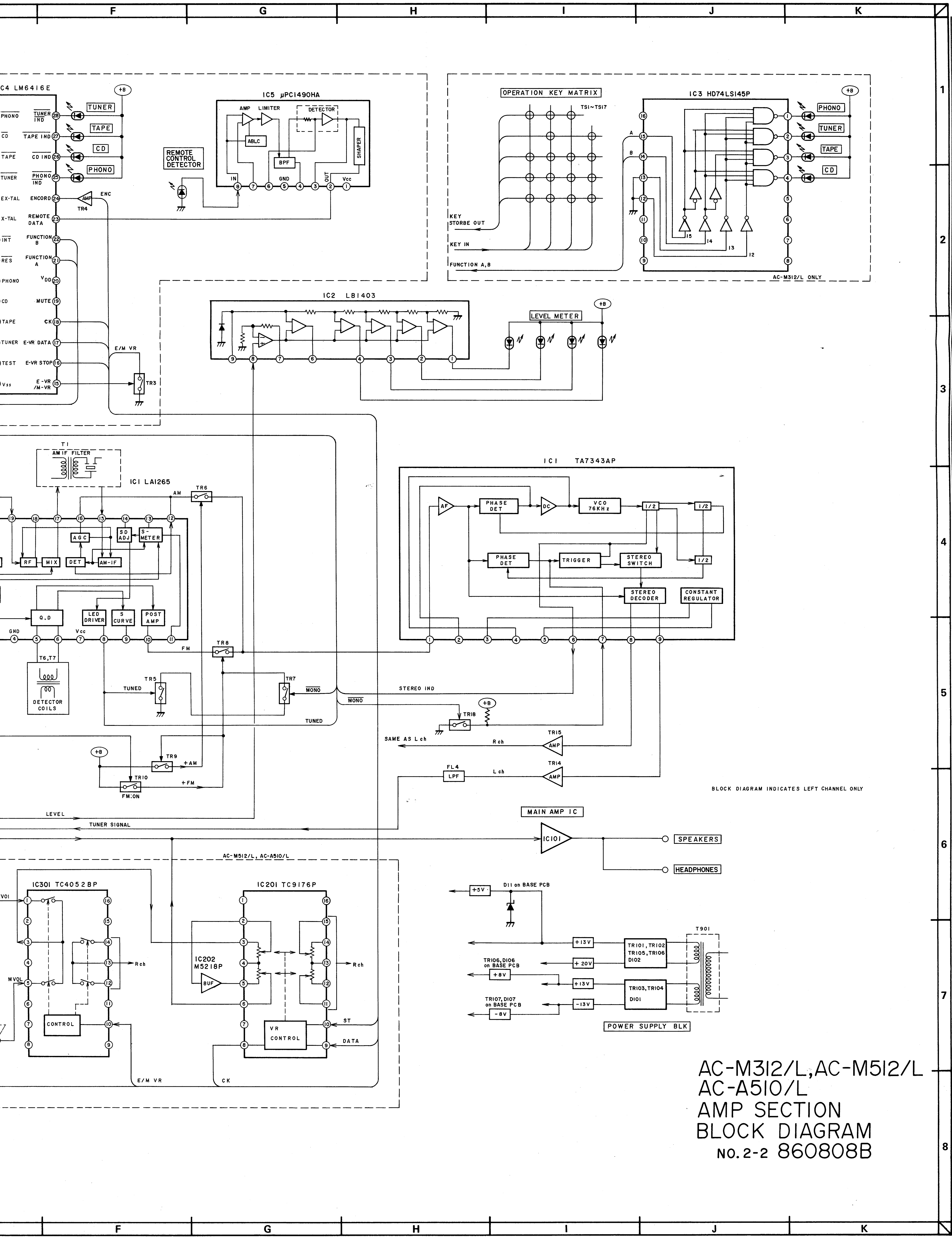
AC-M512/L

DECK BLOCK DIAGRAM

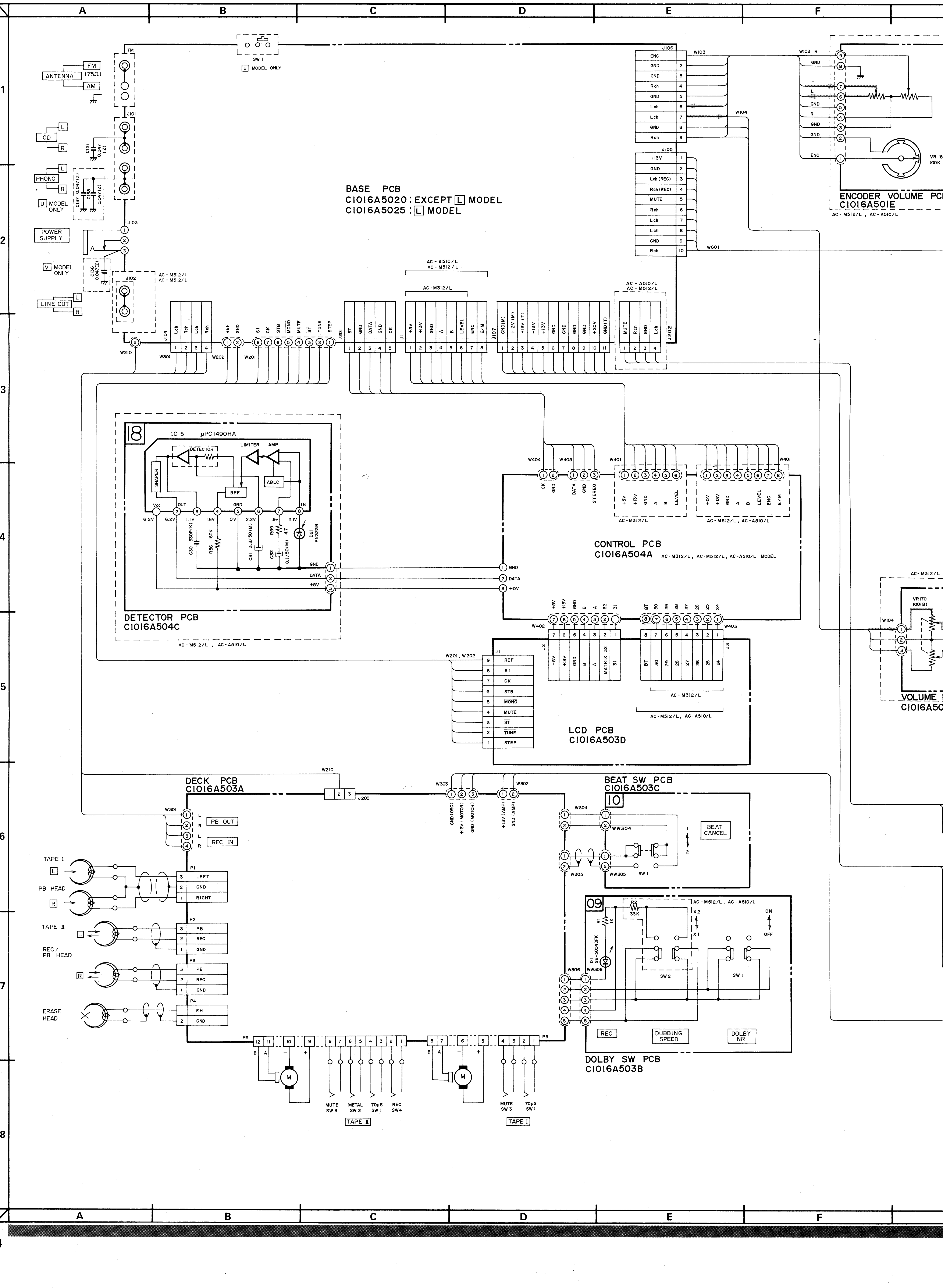
NO.2-1 870430A

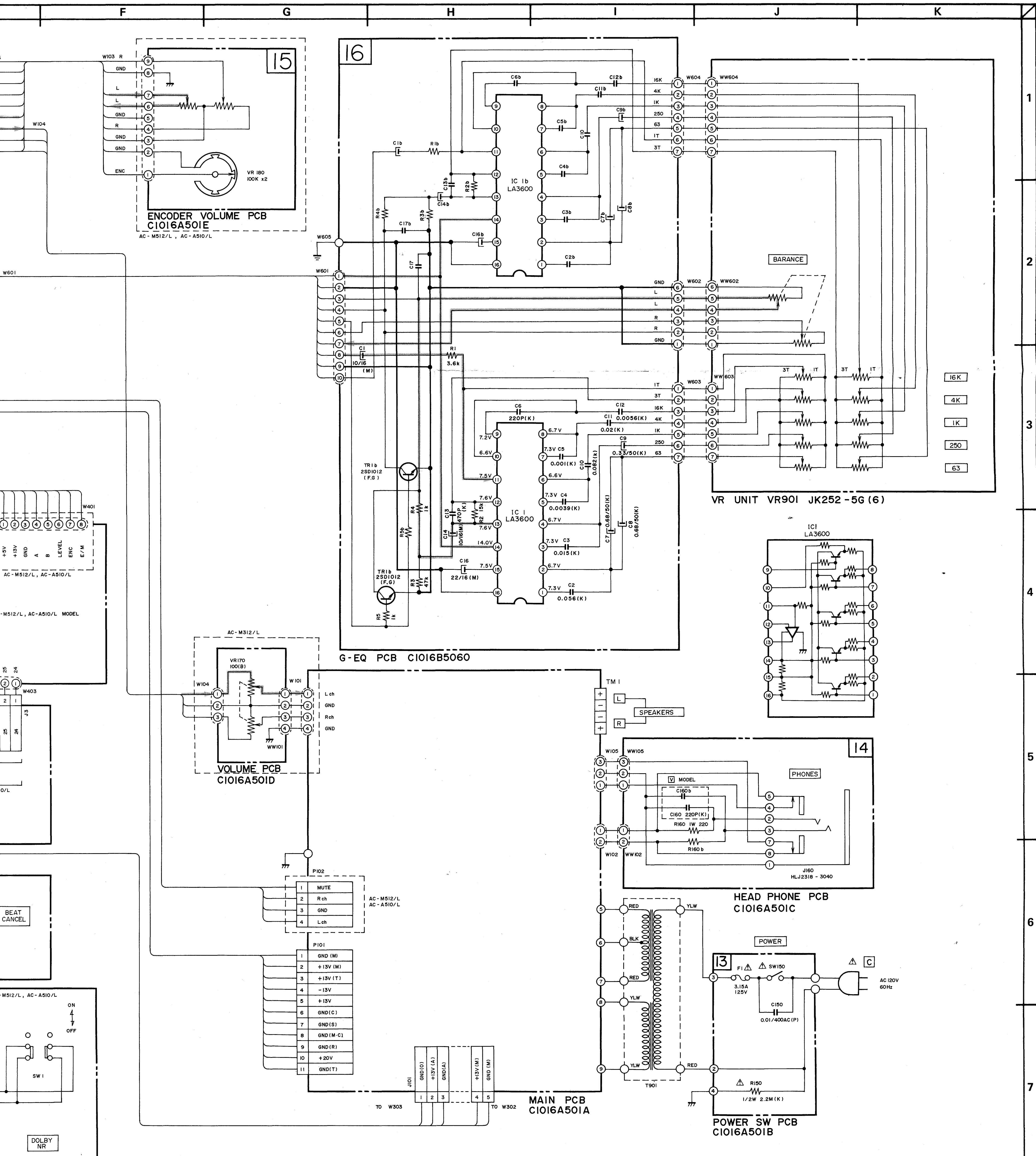


A
B
C
D
E
F
1
2
3
4
5
6
7
8
BACK UP BATTERY
BT1
REF
9419P
MEMO TUNED STEREO DUAL
MHz KHz MONO
FM MW SW TV LW
18.8.8.8
DISPLAY
DISPLAY DATA
IC TC9302F-011 MI-COM
DATA
CLOCK
STROBE
MONO
B
A
MUTE
STEREO IND
TUNED
KEY IN
KEY STROBE OUT
D10 L ONLY
D11 C ONLY
TR10 U ONLY
AM STEP SW
OPERATION KEY MATRIX
TS1~TS12, TS17
KEY RETURN
KEY STROBE
TR5
TR6
TR7
TR8
TR2
+B
PHONO
CD
TAPE
TUNER
TS13~TS16
IC4 LM6416E
PHONO
CD
TAPE
TUNER
EX-TAL
X-TAL
INT
RES
PHONO
CD
TAPE
TUNER
TEST
Vss
TUNER IND
TAPE IND
CD IND
PHONO IND
ENCORD
REMOTE DATA
FUNCTION B
FUNCTION A
VDD
MUTE
CK
E-VR DATA
E-VR STOP
E-VR /M-VR
AMP
TR4
ENC
TUNER
TAPE
CD
PHONO
REMOTE CONTROL DETECTOR
E/M VR
TR3
FUNCTION A,B
AC-M512/L, AC-A510/L
STEREO IND
AM ANT IN
FM ANT IN
FM FRONT END
ANT
FM TUNING
FM fc
fc+10.7MHz
RF MIX
IF OUT
FM VCO
VT
OSC
TR16,TR17,C37
LPF
IC3 TC9172
VDD
TRI-STATE BUFFER
1/2
F/F
1/15/1/16
PHASE COMP.
1/N1 COUNTER
1/N2 COUNTER
PLL I/O PORT
OUTPUT PORT
IF COUNTER 15 BIT
IF COUNTER CONTROL
SERIAL I/O PORT & COUNTER
FM/AM
+FM
REF
DATA
CLOCK
STROBE
EXCEPT L T2, D1, VC1
L T2, T3, D1, TR2, VC1
MW/LW TUNING
TR1 MW:ON LW:OFF
TR11, TR12
+B
L MODEL ONLY
TR13
FM:ON
AM fc
T4, T5, D2
MW/LW VCO
VT
MW/LW SELECT CONTROL
FM IF FILTER
FL1
TR4
AMP
FL2
FM
T1
AM IF FILTER
IC1 LA1265
AM
BUFFER
OSC
REG
RF
MIX
DET
AGC
SD ADJ
S-METER
AM-IF
LEVEL DIT
LEVEL DIT
FM-IF
Q.D
LED DRIVER
S CURVE
POST AMP
GND
Vcc
T6, T7
DETECTOR COILS
TR6
AM
FM
TR5
TUNED
+B
TR9
+AM
TR10
+FM
FM:ON
MUTE
TR103
LINE OUT
LEVEL
TUNER SIGNAL
IC102 TC4052BP
VDD
VEE
Vss
CONTROL
Rch
FROM DECK PCB
CD/AUX
PHONO
IC101 M5218P
AMP
TR101
TR102
A
B
IC 103 M5218P
AMP
POWER SUPPLY
+13V
GRAPHIC EQUALIZER
TR104 on G-EQ PCB
POWER MUTE
TR105
+B
IC1 LA3600
BALANCE
VOLUME
VR170
AC-M312/L ONLY
TO DECK PCB
EV01
IC301 TC4052BP
MVOL
CONTROL
Rch
VOLUME
ENCODER
ENC
E/M VR
IC202 M5218
BUF


F
G
H
I
J
K
1
2
3
4
5
6
7
8
C4 LM6416E
+B
TUNER
TAPE
CD
PHONO
PHONO
TUNER IND
CD
TAPE IND
TAPE
CD IND
TUNER
PHONO IND
EX-TAL
ENCORD
AMP
TR4
ENC
X-TAL
REMOTE DATA
INT
FUNCTION B
RES
FUNCTION A
PHONO
VDD
CD
MUTE
TAPE
CK
TUNER
E-VR DATA
TEST
E-VR STOP
Vss
E-VR /M-VR
E/M VR
TR3
IC5 μPC1490HA
AMP
LIMITER
DETECTOR
ABLC
BPF
SHAPER
IN
GND
OUT
Vcc
REMOTE CONTROL DETECTOR
OPERATION KEY MATRIX
TS1~TS17
KEY STORBE OUT
KEY IN
FUNCTION A,B
IC3 HD74LS145P
A
B
PHONO
TUNER
TAPE
CD
AC-M312/L ONLY
IC2 LB1403
LEVEL METER
T1
AM IF FILTER
IC1 LA1265
AM
TR6
AGC
SD ADJ
S-METER
RF
MIX
DET
AM-IF
Q.D
LED DRIVER
S CURVE
POST AMP
GND
Vcc
T6,T7
DETECTOR COILS
FM
TR8
TR5
TUNED
TR7
MONO
STEREO IND
MONO
TR18
TUNED
IC1 TA7343AP
AF
PHASE DET
DC
VCO 76KHz
1/2
1/2
PHASE DET
TRIGGER
STEREO SWITCH
1/2
STEREO DECODER
CONSTANT REGULATOR
SAME AS L ch
R ch
TR15
AMP
TR14
FL4
LPF
L ch
AMP
TR9
+AM
TR10
+FM
FM:ON
BLOCK DIAGRAM INDICATES LEFT CHANNEL ONLY
LEVEL
TUNER SIGNAL
MAIN AMP IC
IC101
SPEAKERS
HEADPHONES
AC-M512/L, AC-A510/L
IC301 TC4052BP
VO1
R ch
MVOL
CONTROL
IC201 TC9176P
IC202 M5218P
BUF
R ch
VR CONTROL
ST
DATA
E/M VR
CK
+5V
D11 on BASE PCB
+13V
TR101, TR102 TR105, TR106 D102
T901
TR106, D106 on BASE PCB
+20V
+8V
+13V
TR103, TR104 D101
TR107, D107 on BASE PCB
-13V
-8V
POWER SUPPLY BLK

AC-M312/L, AC-M512/L
AC-A510/L
AMP SECTION
BLOCK DIAGRAM
NO. 2-2 860808B


BASE PCB
C1016A5020 : EXCEPT L MODEL
C1016A5025 : L MODEL
ENCODER VOLUME PC
C1016A501E
AC-M512/L , AC-A510/L
DETECTOR PCB
C1016A504C
AC-M512/L , AC-A510/L
18
IC 5 μPC1490HA
DETECTOR
LIMITER
AMP
SHAPER
BPF
ABLC
Vcc
OUT
GND
IN
6.2V
6.2V
1.1V
1.6V
0V
2.2V
1.9V
2.1V
C30 330P(K)
R56 160K
C31 3.3/50(M)
R59 4.7
C32 0.1/50(M)
D21 PN323B
CONTROL PCB
C1016A504A AC-M312/L, AC-M512/L, AC-A510/L MODEL
AC-M312/L
AC-M512/L, AC-A510/L
LCD PCB
C1016A503D
AC-M312/L
AC-M512/L, AC-A510/L
DECK PCB
C1016A503A
BEAT SW PCB
C1016A503C
10
BEAT CANCEL
DOLBY SW PCB
C1016A503B
09
AC-M512/L, AC-A510/L
R1 1K
R2 33K
D1 SE-5004DFK
SW 2
SW 1
ON
OFF
X2
X1
REC
DUBBING SPEED
DOLBY NR
VOLUME
C1016A50
AC-M312/L
VR170 100(B)
VR 18 100K
ANTENNA
FM (75Ω)
AM
CD
PHONO
U MODEL ONLY
POWER SUPPLY
V MODEL ONLY
LINE OUT
L
R
TM1
J101
J102
J103
C121 0.047 (Z)
C137 0.047(Z)
C138 0.047(Z)
C136 0.047(Z)
AC-M312/L
AC-M512/L
SW 1
U MODEL ONLY
J106
J105
W103
W104
W601
ENC
GND
Rch
Lch
+13V
Lch (REC)
Rch (REC)
MUTE
AC-A510/L
AC-M512/L
AC-M312/L
J104
J201
J1
J107
J202
REF
S1
CK
STB
MONO
ST
TUNE
STEP
DATA
+5V
A
B
LEVEL
E/M
GND(M)
+12V (M)
+13V (T)
-13V
+20V
GND(T)
W210
W301
W202
W201
W404
W405
W401
STEREO
W402
W403
MATRIX 32
31
BT
30
29
28
27
26
25
24
J2
J3
W201, W202
W210
J200
W303
W302
GND (OSC)
+13V (MOTOR)
GND (MOTOR)
+13V (AMP)
GND (AMP)
W304
WW304
W305
WW305
W306
WW306
PB OUT
REC IN
TAPE I
PB HEAD
TAPE II
REC / PB HEAD
ERASE HEAD
P1
LEFT
RIGHT
P2
PB
REC
P3
P4
EH
P6
P5
M
MUTE SW 3
METAL SW 2
70μS SW 1
REC SW4
TAPE II
MUTE SW 3
70μS SW 1
TAPE I
A
B
C
D
E
F
1
2
3
4
5
6
7
8



F
G
H
I
J
K
1
2
3
4
5
6
7
8
15
ENCODER VOLUME PCB
C1016A501E
AC-M512/L, AC-A510/L
VR 180
100K x2
W103
W104
W601
W401
W403
J3
ENC
16
IC 1b
LA3600
IC 1
LA3600
TR1b
2SD1012
(F,G)
TR1b
2SD1012
(F,G)
W605
W601
W604
WW604
W602
WW602
W603
WW603
BARANCE
16K
4K
1K
250
63
3T
1T
GND
L
R
VR UNIT VR901 JK252-5G(6)
IC1
LA3600
G-EQ PCB C1016B5060
AC-M312/L
VR170
100(B)
W104
W101
WW101
Lch
GND
Rch
GND
VOLUME PCB
C1016A501D
TM1
SPEAKERS
L
R
14
W105
WW105
W102
WW102
MODEL
PHONES
C160b
C160 220P(K)
R160 1W 220
R160b
J160
HLJ2318-3040
HEAD PHONE PCB
C1016A501C
P102
MUTE
Rch
GND
Lch
AC-M512/L
AC-A510/L
P101
GND (M)
+13V (M)
+13V (T)
-13V
+13V
GND(C)
GND(S)
GND(M-C)
GND(R)
+20V
GND(T)
J101
GND(0)
+13V (A)
GND(A)
+13V (M)
GND (M)
TO W303
TO W302
MAIN PCB
C1016A501A
RED
BLK
YLW
T901
POWER
13
F1
SW150
3.15A
125V
C150
0.01/400AC(P)
R150
1/2W 2.2M(K)
AC 120V
60Hz
C
POWER SW PCB
C1016A501B
BEAT CANCEL
SW1
ON
OFF
DOLBY NR
AC-M512/L, AC-A510/L MODEL

▬ = B(POWER SUPPLY) LINE

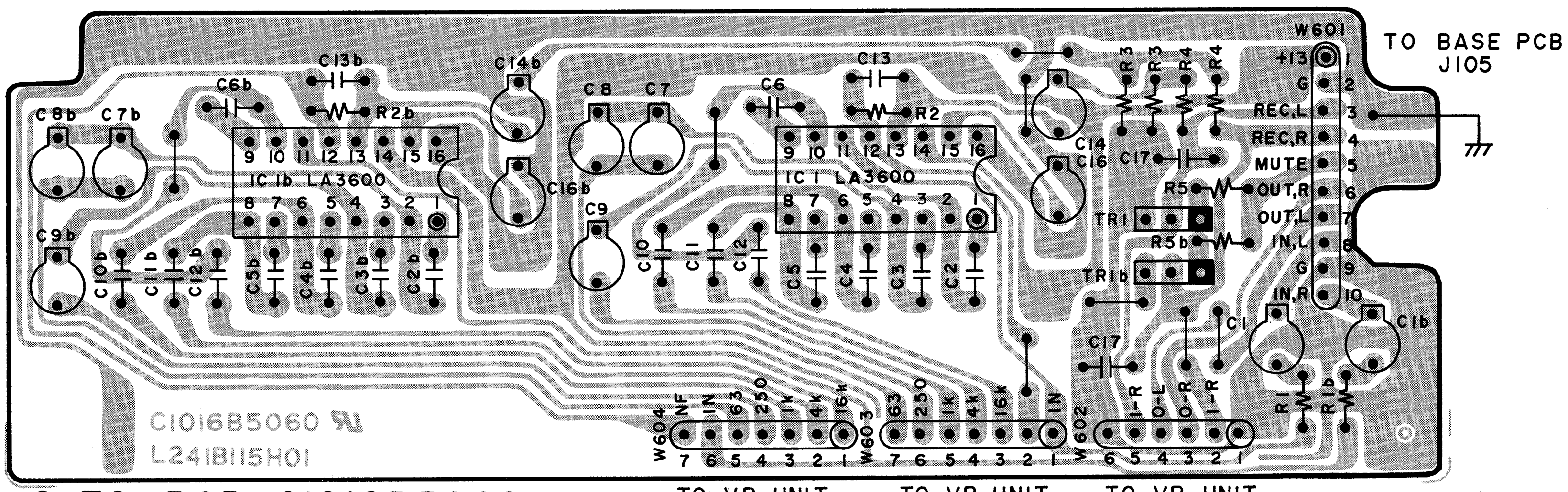
▬ = SIGNAL LINE

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL.
NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

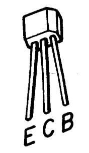
AC-M312/L , AC-M512/L,
AC-A510/L
CONNECTION DIAGRAM

NO. 7-1 870423A

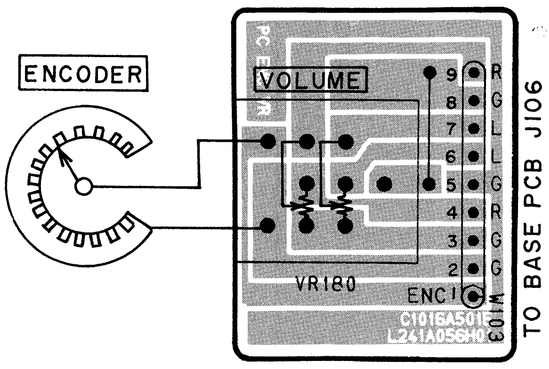

W601
TO BASE PCB J105
+13 1
G 2
REC,L 3
REC,R 4
MUTE 5
OUT,R 6
OUT,L 7
IN,L 8
G 9
IN,R 10
C8b C7b C9b C6b C13b R2b C14b C16b C8 C7 C9 C6 C13 R2 C14 C16 C17 R5 R5b TR1 TR1b C1 C1b R1 R1b R3 R3b R4 R4b
IC 1b LA3600
IC 1 LA3600
C10b C11b C12b C5b C4b C3b C2b C10 C11 C12 C5 C4 C3 C2
C1016B5060
L241B115H01
W604 NF IN 63 250 1k 4k 16k 7 6 5 4 3 2 1
W603 63 250 1k 4k 16k IN 7 6 5 4 3 2 1
W602 I-R O-L O-R I-R 6 5 4 3 2 1
TO VR UNIT WW604
TO VR UNIT WW603
TO VR UNIT WW602

G-EQ PCB C1016B5060

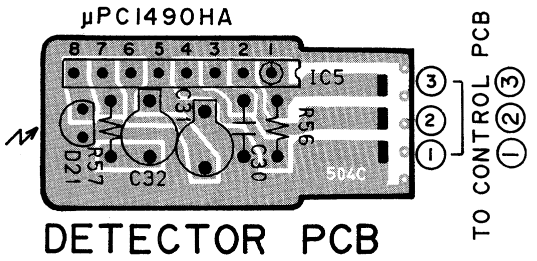
TR1 ···· 2SD1012



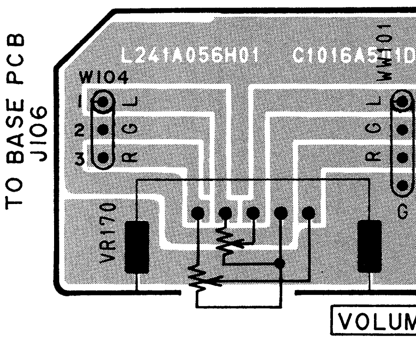
2SD1012


ENCODER
VOLUME
VR180
9 R
8 G
7 L
6 L
5 G
4 R
3 G
2 G
ENC 1
W103
TO BASE PCB J106
C1016A501E
L241A056H01

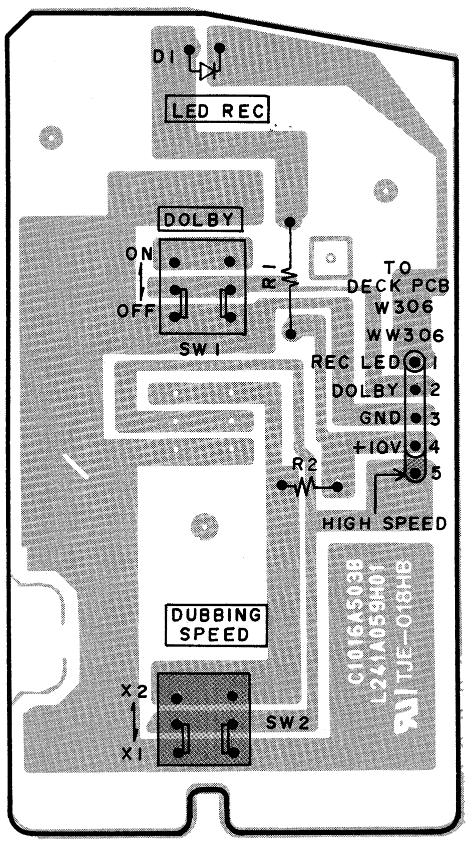
ENCODER VOLUME PCB
C1016A501E
AC-M512/L
AC-A510/L ONLY


μPC1490HA
8 7 6 5 4 3 2 1
IC5
D21 R57 C32 C31 C30 R56
504C
③ ② ①
TO CONTROL PCB ①②③

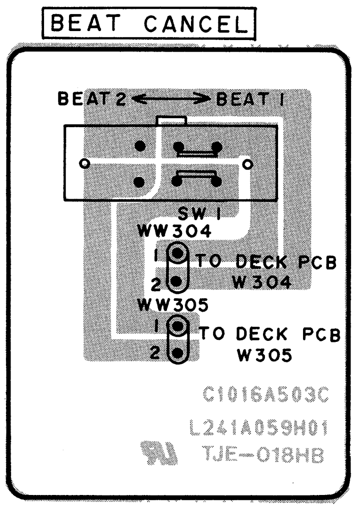
DETECTOR PCB
C1016A504C
AC-M512/L
AC-A510/L ONLY


L241A056H01 C1016A501D
W104
1 L
2 G
3 R
TO BASE PCB J106
VR170
L G R
VOLUME

VOLUME PCB
C1016A501D
AC-M312/L ONLY

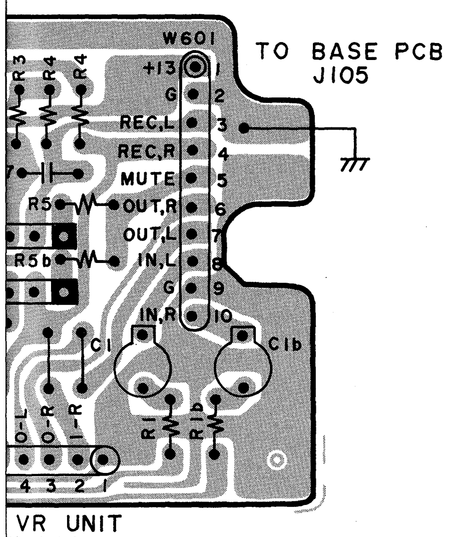

D1
LED REC
DOLBY
ON
OFF
SW1
R1
TO DECK PCB W306
WW306
REC LED 1
DOLBY 2
GND 3
+10V 4
5
R2
HIGH SPEED
DUBBING SPEED
X2
X1
SW2
C1016A503B
L241A059H01
TJE-018HB

DOLBY SW PCB
C1016A503B

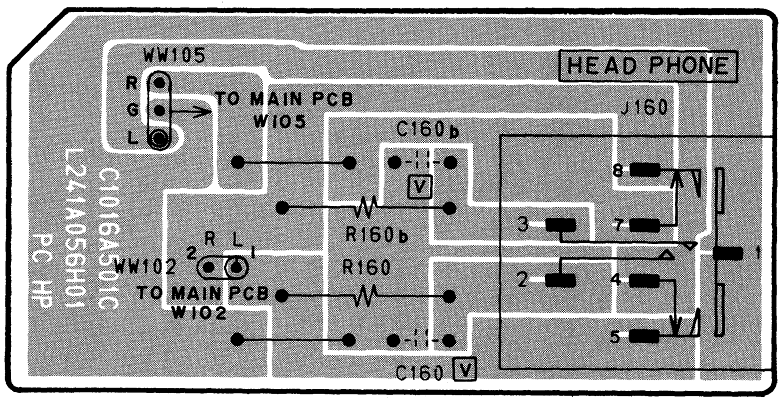

BEAT CANCEL
BEAT 2 ←→ BEAT 1
SW1
WW304
1
2
TO DECK PCB W304
WW305
1
2
TO DECK PCB W305
C1016A503C
L241A059H01
TJE-018HB

BEAT SW PCB
C1016A503C

Parts indicated ▨ are used for models AC- M512 / L and AC- A510 / L ONLY.

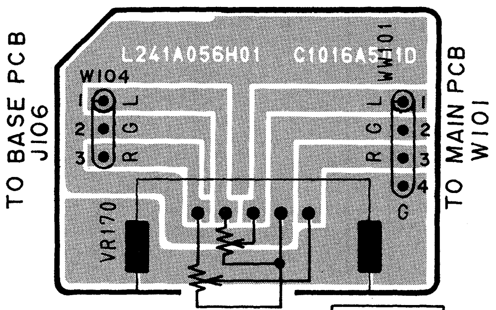

W601
TO BASE PCB
J105
+13
G
REC,L
REC,R
MUTE
OUT,R
OUT,L
IN,L
G
IN,R
1
2
3
4
5
6
7
8
9
10
R3
R4
R5
R5b
C1
C1b
R1
R1b
4 3 2 1

VR UNIT
W602


WW105
R
G
L
TO MAIN PCB
W105
HEAD PHONE
C160b
J160
C1016A501C
L241A056H01
PC HP
R160b
R160
WW102
2 R L 1
TO MAIN PCB
W102
C160
V
8
7
3
2
4
5
1

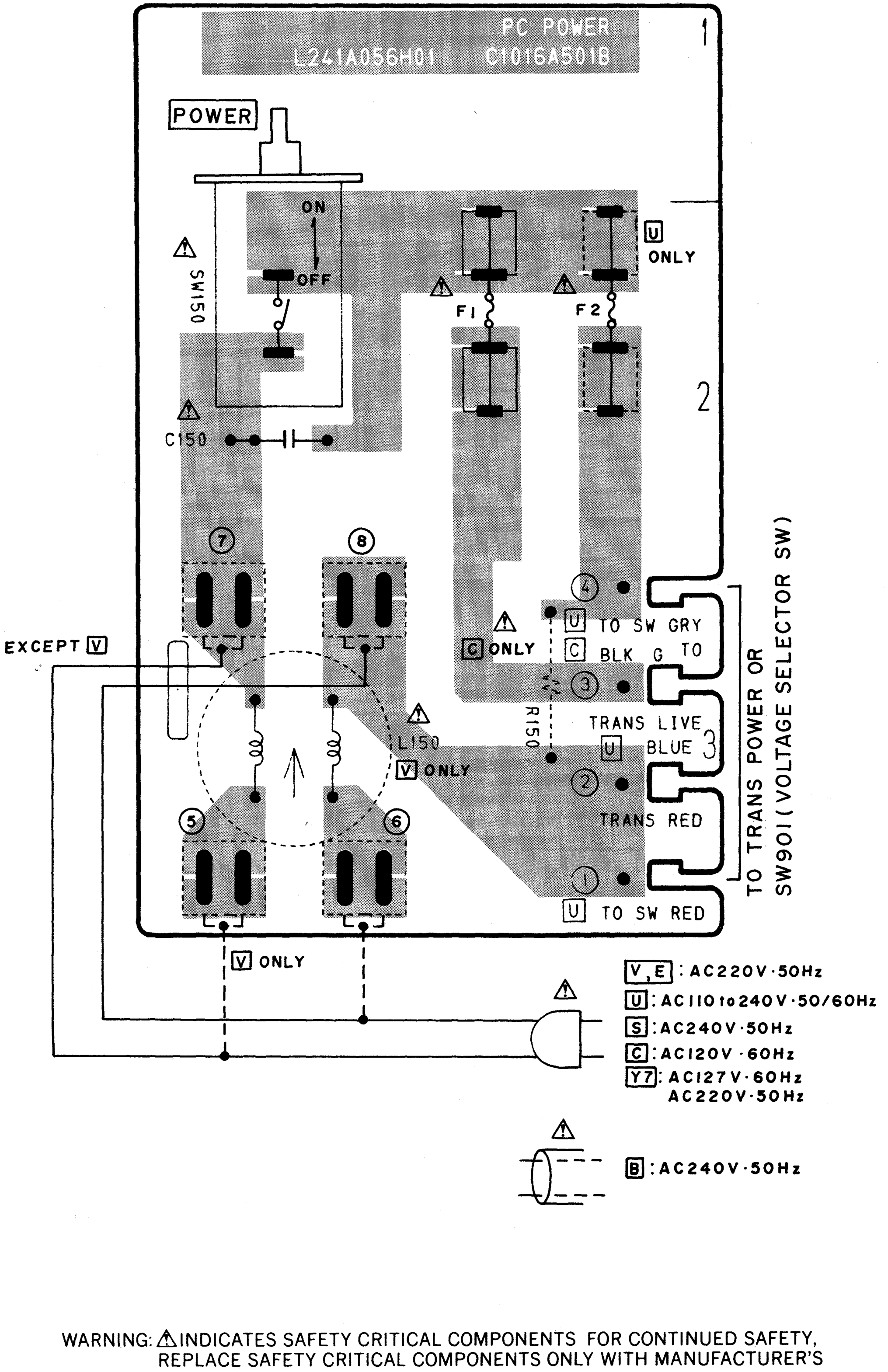
HEAD PHONE PCB C1016A501C

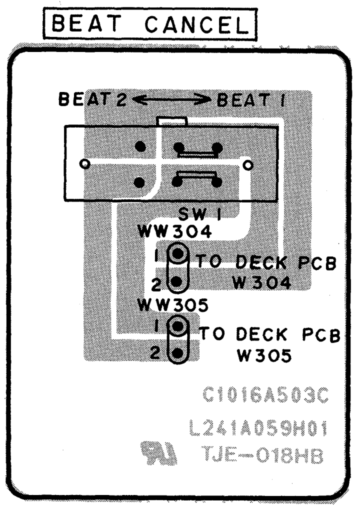
TO CONTROL PCB
①②③


TO BASE PCB
J106
W104
1
2
3
L
G
R
L241A056H01
C1016A501D
WW101
TO MAIN PCB
W101
4
G
VR170
VOLUME

VOLUME PCB
C1016A501D
AC-M312/L ONLY

POWER SW PCB C1016A501B

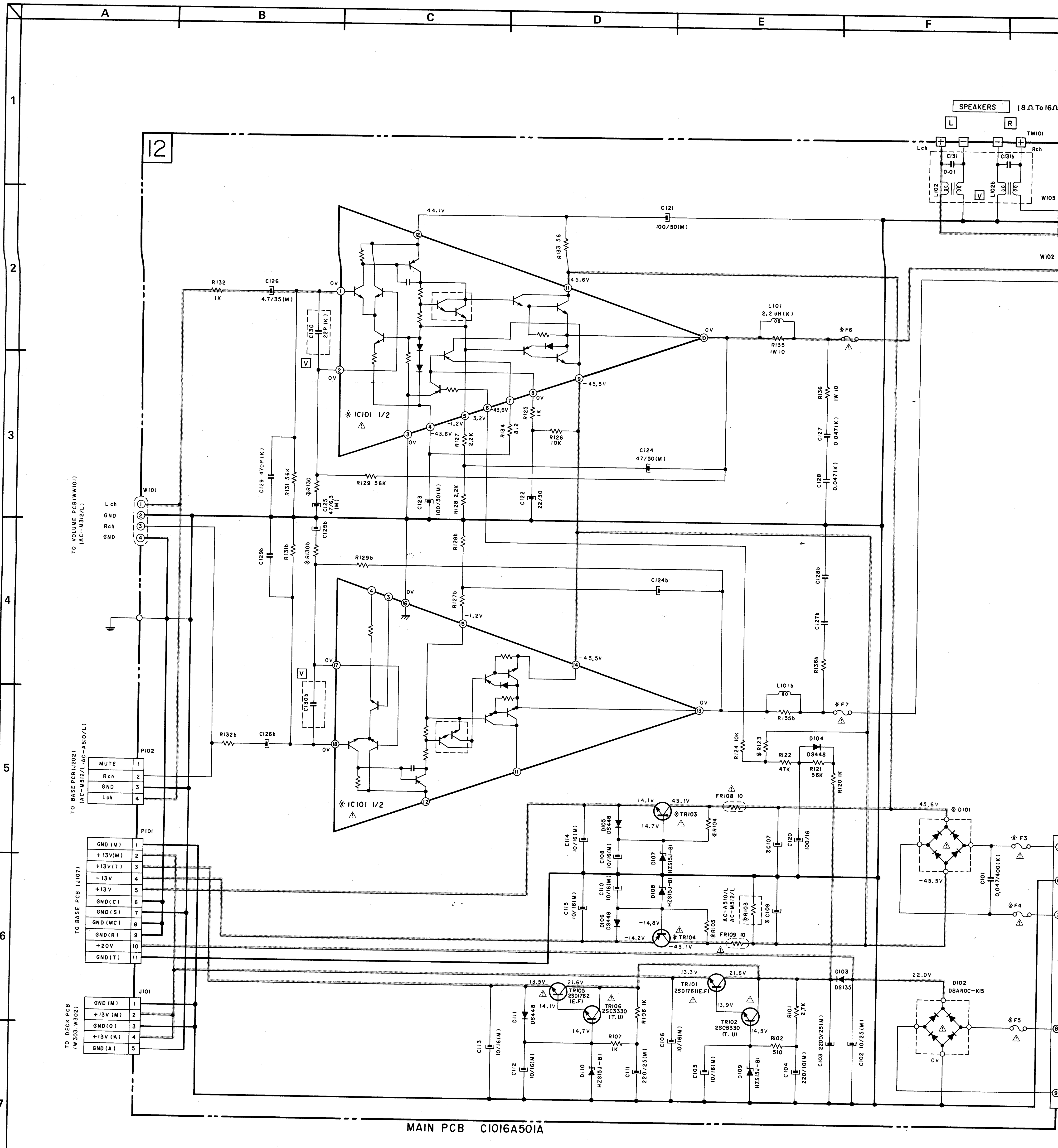

PC POWER
L241A056H01
C1016A501B
POWER
ON
OFF
SW150
U
ONLY
F1
F2
C150
⑦
⑧
EXCEPT V
④
U TO SW GRY
C BLK G TO
C ONLY
③
R150
L150
V ONLY
TRANS LIVE
U BLUE
②
TRANS RED
⑤
⑥
①
U TO SW RED
TO TRANS POWER OR
SW901 (VOLTAGE SELECTOR SW)
V ONLY
V,E : AC220V·50Hz
U : AC110 to 240V·50/60Hz
S : AC240V·50Hz
C : AC120V ·60Hz
Y7 : AC127V·60Hz
AC220V·50Hz
B : AC240V·50Hz
1
2
3


BEAT CANCEL
BEAT 2
BEAT 1
SW 1
WW304
1
2
TO DECK PCB
W304
WW305
1
2
TO DECK PCB
W305
C1016A503C
L241A059H01
TJE-018HB

BEAT SW PCB
C1016A503C

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



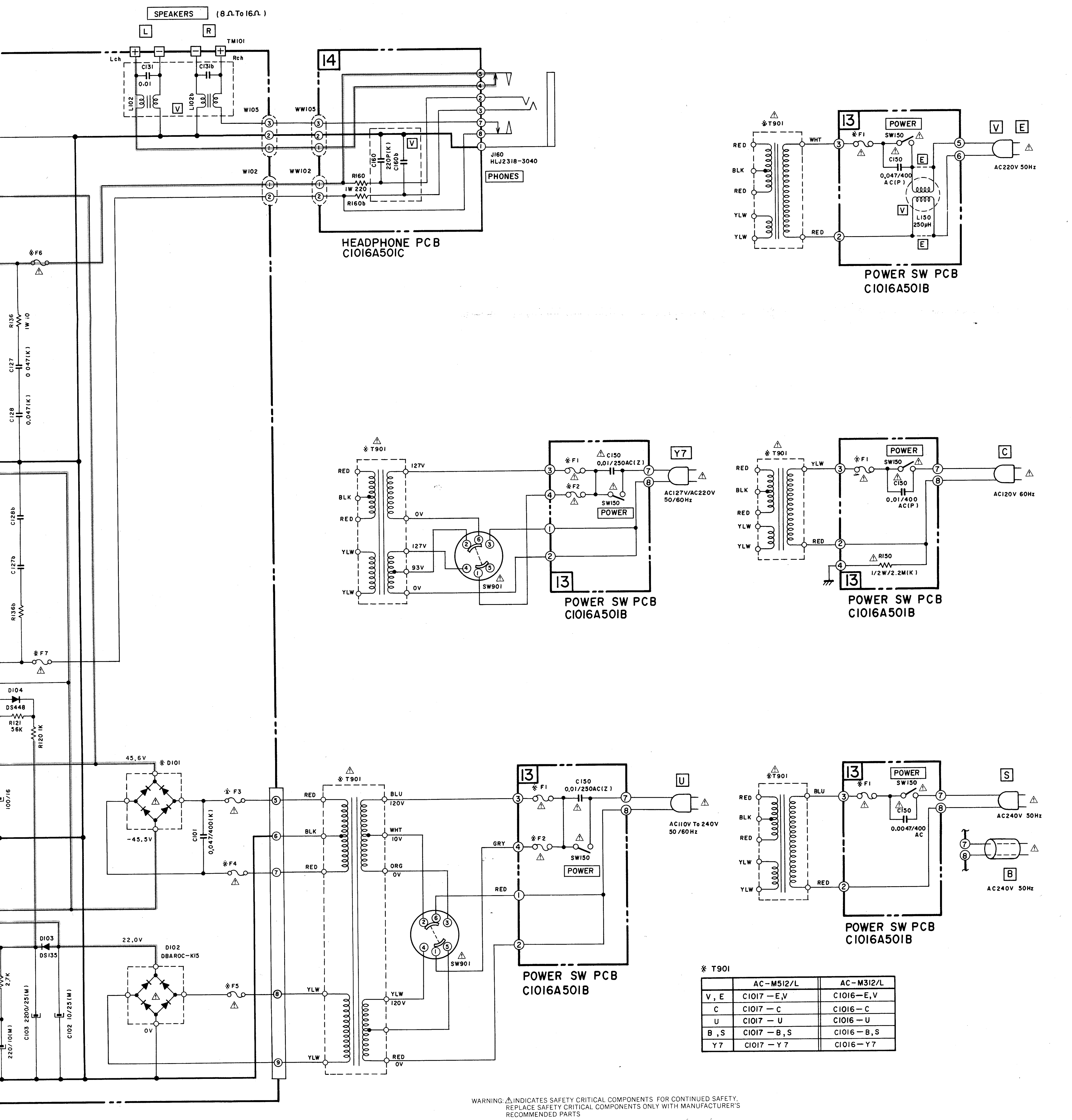
A
B
C
D
E
F
1
2
3
4
5
6
7
12
SPEAKERS
(8 Ω To 16Ω
L
R
TM101
Lch
Rch
C131
0.01
C131b
L102
L102b
V
W105
W102
44.1V
C121
100/50(M)
R133 56
45.6V
R132
1K
C126
4.7/35(M)
0V
C130
22P(K)
V
※IC101 1/2
△
L101
2.2 uH(K)
R135
1W 10
※F6
△
-45.5V
R136
1W 10
C127
0.047(K)
C128
0.047(K)
-1.2V
3.2V
43.6V
-43.6V
R127
2.2K
R134
8.2
R125
1K
R126
10K
C124
47/50(M)
C129 470P(K)
R131 56K
※R130
R129 56K
C125
47/6.3
(M)
C123
100/50(M)
R128 2.2K
C122
22/50
W101
Lch
GND
Rch
GND
TO VOLUME PCB(WW101)
(AC-M312/L)
C125b
C129b
R131b
※R130b
R129b
R128b
C124b
C128b
C127b
R136b
R127b
-1.2V
-45.5V
C130b
V
R132b
C126b
L101b
R135b
※F7
△
R124 10K
※R123
D104
DS448
R122
47K
R121
56K
R120 1K
P102
MUTE
Rch
GND
Lch
TO BASE PCB(J202)
(AC-M512/L.AC-A510/L)
※IC101 1/2
△
P101
GND (M)
+13V(M)
+13V(T)
-13V
+13V
GND(C)
GND(S)
GND (MC)
GND(R)
+20V
GND(T)
TO BASE PCB (J107)
14.1V
45.1V
※TR103
△
14.7V
※R104
FR108 10
△
C114
10/16(M)
D105
DS448
C108
10/16(M)
D107
HZS15J-B1
※C107
C120
100/16
45.6V
※D101
※F3
△
-45.5V
C101
0.047/400(K)
※F4
△
C115
10/16(M)
C110
10/16(M)
D108
HZS15J-B1
D106
DS448
-14.8V
-14.2V
※TR104
-45.1V
※R105
FR109 10
AC-A510/L
AC-M512/L
※R103
※C109
J101
GND (M)
+13V (M)
GND(O)
+13V (A)
GND (A)
TO DECK PCB
(W303.W302)
13.5V
21.6V
TR105
2SD1762
(E.F)
14.1V
TR106
2SC3330
(T.U)
14.7V
R106 1K
R107
1K
D111
DS448
C113
10/16(M)
C112
10/16(M)
D110
HZS15J-B1
C111
220/25(M)
13.3V
21.6V
TR101
2SD1761(E.F)
13.9V
TR102
2SC3330
(T. U)
14.5V
R101
2.7K
R102
510
C106
10/16(M)
C105
10/16(M)
D109
HZS15J-B1
C104
220/10(M)
D103
DS135
C103 2200/25(M)
C102 10/25(M)
22.0V
D102
DBAR0C-K15
※F5
△
0V
MAIN PCB C1016A501A

※	C107. 109	D101	IC101	R104. 105	R123	R130	TR103	TR104	R103
AC-M512/L, AC-A510/L	4700/50	DBA60C-K15	STK4172-II	12K	270K	680	2SD1761 (E.F)	2SB1187 (E.F)	2W 2.2K
AC-M312/L	4700/45	DBA40C-K15	STK4152-II	10K	220K	750	2SD1762 (E.F)	2SB1185 (E.F)	———

=B (POWER SUPPLY) LINE
=SIGNAL LINE

※	AC-M312/L							AC-M512/L, AC-A510/L						
	F1	F2	F3	F4	F5	F6	F7	F1	F2	F3	F4	F5	F6	F7
U	1.6A/250V	1.6A/250V	———	———	———	4A/250V	4A/250V	2A/250V	2A/250V	———	———	———	4A/250V	4A/250V
C	3.15A/125V	———	5A/125V	5A/125V	1.6A/125A	4A/125V	4A/125V	3.15A/125V	———	6.3A/125V	6.3A/125V	1.6A/125V	4A/125V	4A/125V
E・V・S	T1A/250V	———	T3.15A/250V	T3.15A/250V	T1.25A/250V	T2.5A/250V	T2.5A/250V	T1.25A/250V	———	T4A/250V	T4A/250V	T1.25A/250V	T3.15A/250V	T3.15A/250V
B	T1A/250V	———	T3.15A/250V	T3.15A/250V	T1.25A/250V	T2.5A/250V	T2.5A/250V	T1.25A/250V	———	T4A/250V	T4A/250V	T1.25A/250V	T3.15A/250V	T3.15A/250V
Y7	1.6A/250V	1.6A/250V	———	———	———	4A/250V	4A/250V	2A/250V	2A/250V	———	———	———	4A/250V	4A/250V

A B C D E F


SPEAKERS (8Ω To 16Ω)
L
R
TM101
Lch
Rch
C131
0.01
C131b
L102
L102b
V
W105
WW105
W102
WW102
14
J160
HLJ2318-3040
PHONES
R160
1W 220
R160b
C160
220P(K)
C160b
HEADPHONE PCB
C1016A501C
※F6
R136
1W 10
C127
0.047(K)
C128
0.047(K)
C128b
C127b
R136b
※F7
D104
DS448
R121
56K
R120 1K
100/16
45.6V
※D101
-45.5V
※F3
※F4
C101
0.047/400(K)
D103
DS135
2.7K
C103 2200/25(M)
C102 10/25(M)
220/10(M)
22.0V
D102
DBA10C-K15
0V
※F5
※T901
RED
BLK
YLW
WHT
BLU
ORG
GRY
120V
10V
0V
127V
93V
SW901
13
※F1
※F2
C150
0.01/250AC(Z)
SW150
POWER
Y7
AC127V/AC220V
50/60Hz
U
AC110V To 240V
50/60Hz
POWER SW PCB
C1016A501B
0.047/400
AC(P)
E
L150
250μH
AC220V 50Hz
C
0.01/400
AC(P)
AC120V 60Hz
R150
1/2W/2.2M(K)
S
0.0047/400
AC
AC240V 50Hz
B
AC240V 50Hz
F
G
H
I
J
K
1
2
3
4
5
6
7
8

※ T901

	AC-M512/L	AC-M312/L
V , E	C1017 —E,V	C1016—E,V
C	C1017 — C	C1016 — C
U	C1017 — U	C1016 — U
B , S	C1017 — B , S	C1016 — B , S
Y7	C1017 — Y 7	C1016 — Y7

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

3
2K
——

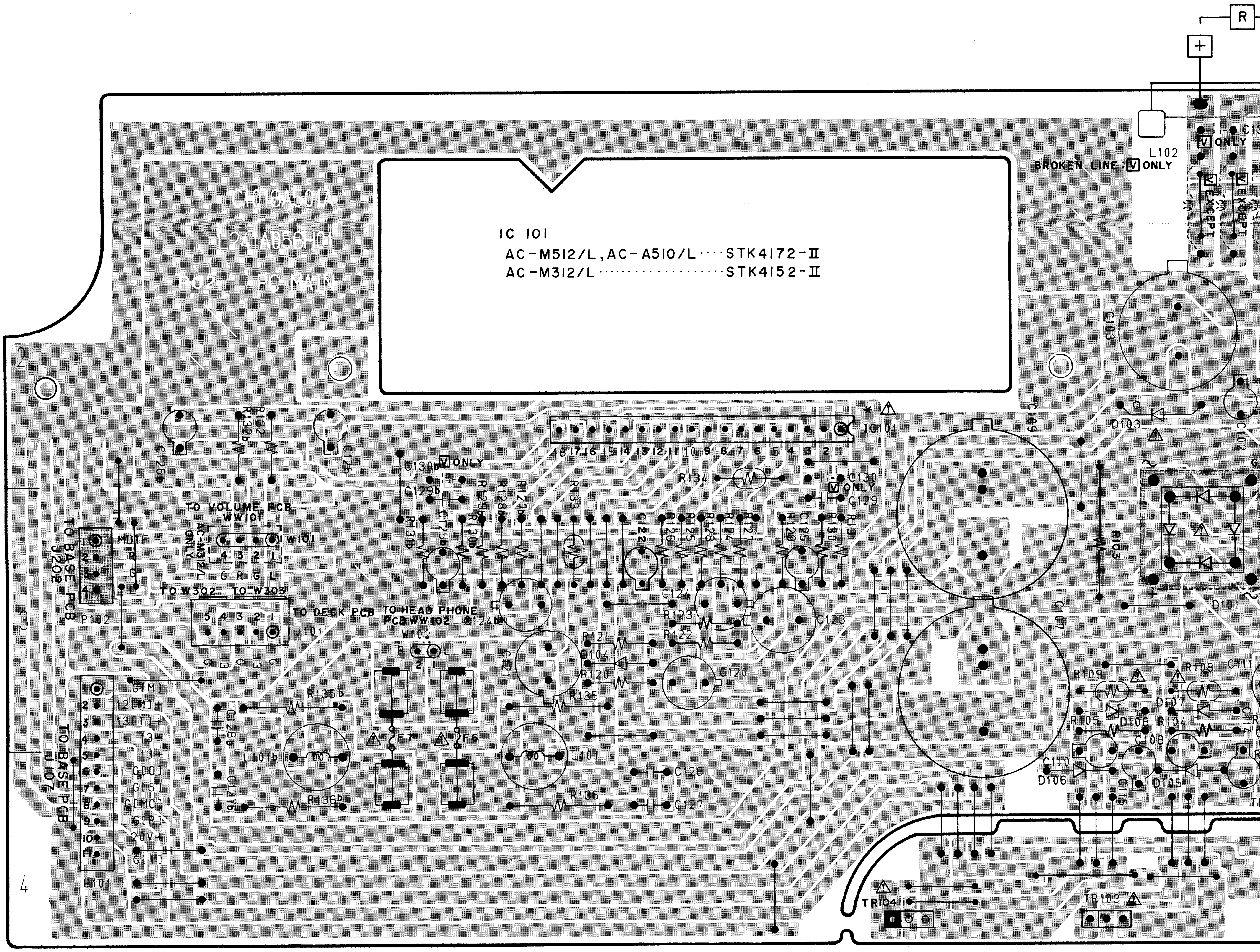
=B(POWER SUPPLY)LINE
=SIGNAL LINE

/L , AC-A510/L			
	F5	F6	F7
——	——	4A/250V	4A/250V
25V	1.6A/125V	4A/125V	4A/125V
50V	T1.25A/250V	T3.15A/250V	T3.15A/250V
50V	T1.25A/250V	T3.15A/250V	T3.15A/250V
——	——	4A/250V	4A/250V

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

AC-M312/L
AC-M512/L
AC-A510/L
MAIN
SCHEMATIC DIAGRAM

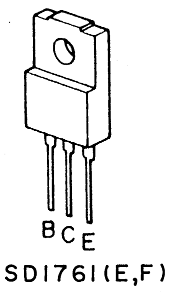
NO. 7-2 870424A


C1016A501A
L241A056H01
P02
PC MAIN
IC 101
AC-M512/L, AC-A510/L ···· STK4172-II
AC-M312/L ··········· STK4152-II
BROKEN LINE : V ONLY
L102
V ONLY
V EXCEPT
R
+
C103
C109
C107
D103
C102
D101
R103
IC101
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
R134
C130
V ONLY
C129
C130b V ONLY
C129b
R129b
R128b
R127b
R133
R131b
C125b
R130b
C122
R126
R125
R128
R124
R127
C125
R129
R130
R131
C124
R123
R122
C123
R121
D104
R120
C120
R135
C121
C124b
L101
C128
R136
C127
R135b
L101b
R136b
F7
F6
C128b
C127b
C126b
R132b
R132
C126
TO VOLUME PCB WW101
AC-M312/L ONLY
4 3 2 1
W101
G R G L
TO W302
TO W303
5 4 3 2 1
J101
G G 13+ G 13+
TO DECK PCB
TO HEAD PHONE PCB WW102
W102
R L
2 1
TO BASE PCB J202
MUTE
R
G
L
P102
TO BASE PCB J107
1 G[M]
2 12[M]+
3 13[T]+
4 13-
5 13+
6 G[C]
7 G[S]
8 G[MC]
9 G[R]
10 20V+
11 G[T]
P101
R109
R108
C111
D107
R105
D108
R104
C108
C110
D106
C115
D105
TR104
TR103
2
3
4

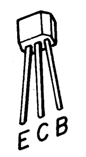
MAIN PCB C1016A501A

B
■●● ···· PNP TRANSISTOR
□●● ···· NPN TRANSISTOR
B

TR101 ···· 2SD1761(E,F)
TR102 ···· 2SC3330(T,U)
TR103 ···· 2SD1761(E,F) ··· AC- M512 / L, AC- A510 / L
2SD1762(E,F) ··· AC- M312 / L
TR104 ···· 2SB1187(E,F) ··· AC- M512 / L, AC- A510 / L
2SB1185(E,F) ··· AC- M312 / L
TR105 ···· 2SD1762(E,F)
TR106 ···· 2SC3330(T,U)



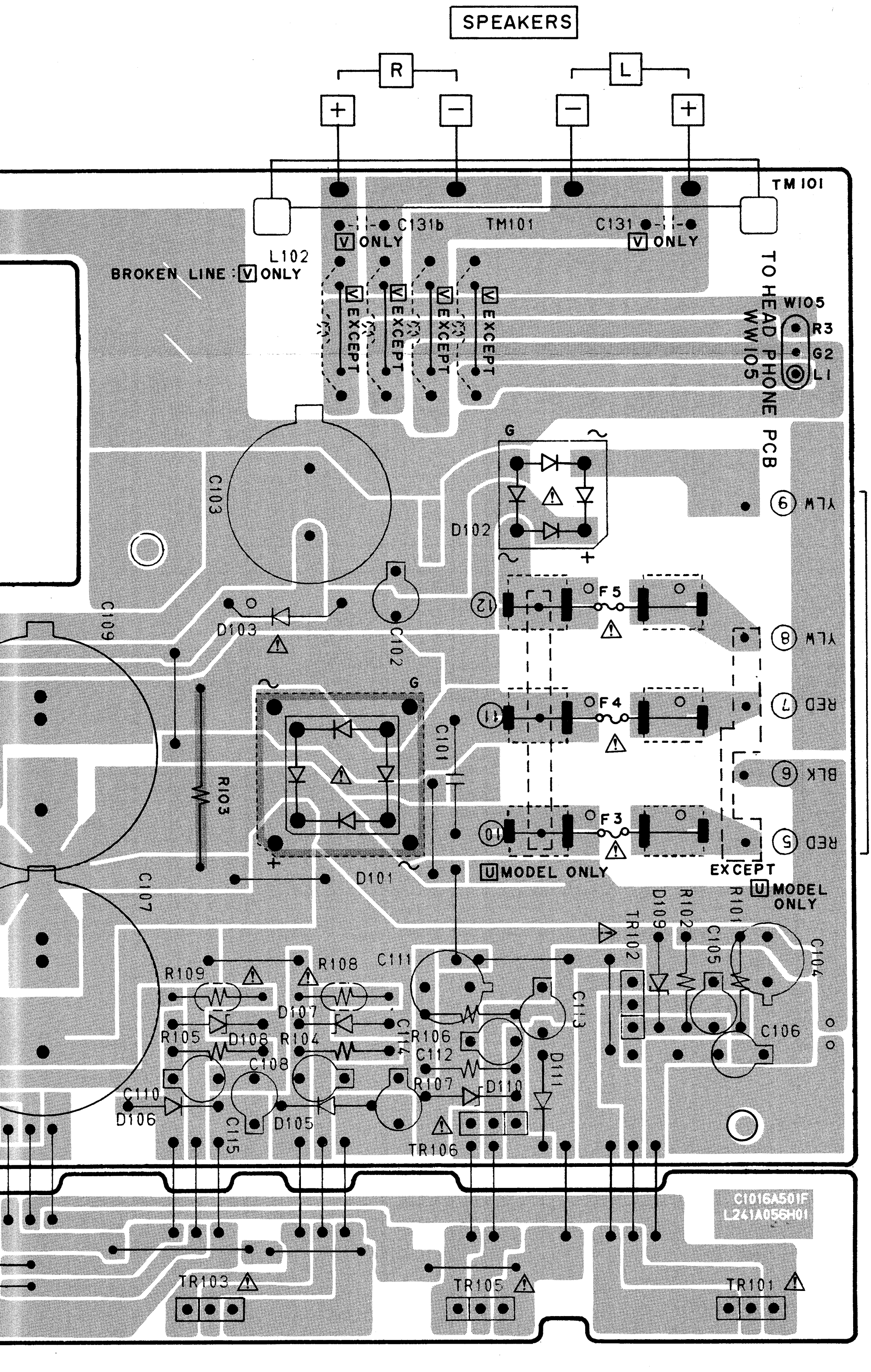
2SD1761(E,F)
2SD1762(E,F)
2SB1187(E,F)
2SB1185(E,F)



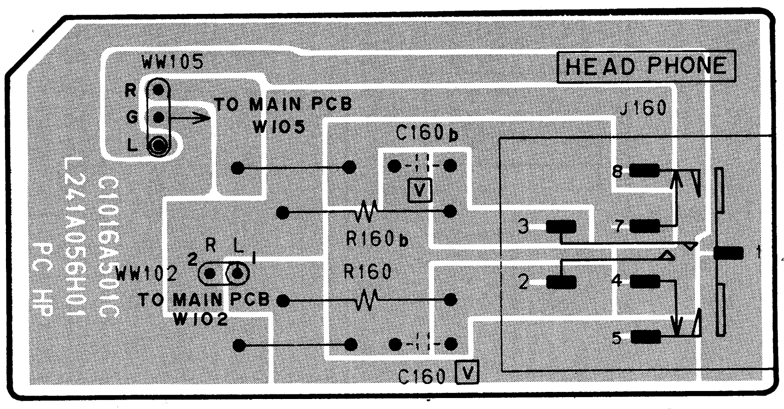
2SC3330(T,U)

Parts indi
AC- M512 / I

WARNING: ⚠INDICATES
REPLACE SA
RECOMMENI
AVERTISSEMENT: ⚠IL I
POUR MAINT
NE REMPLAC

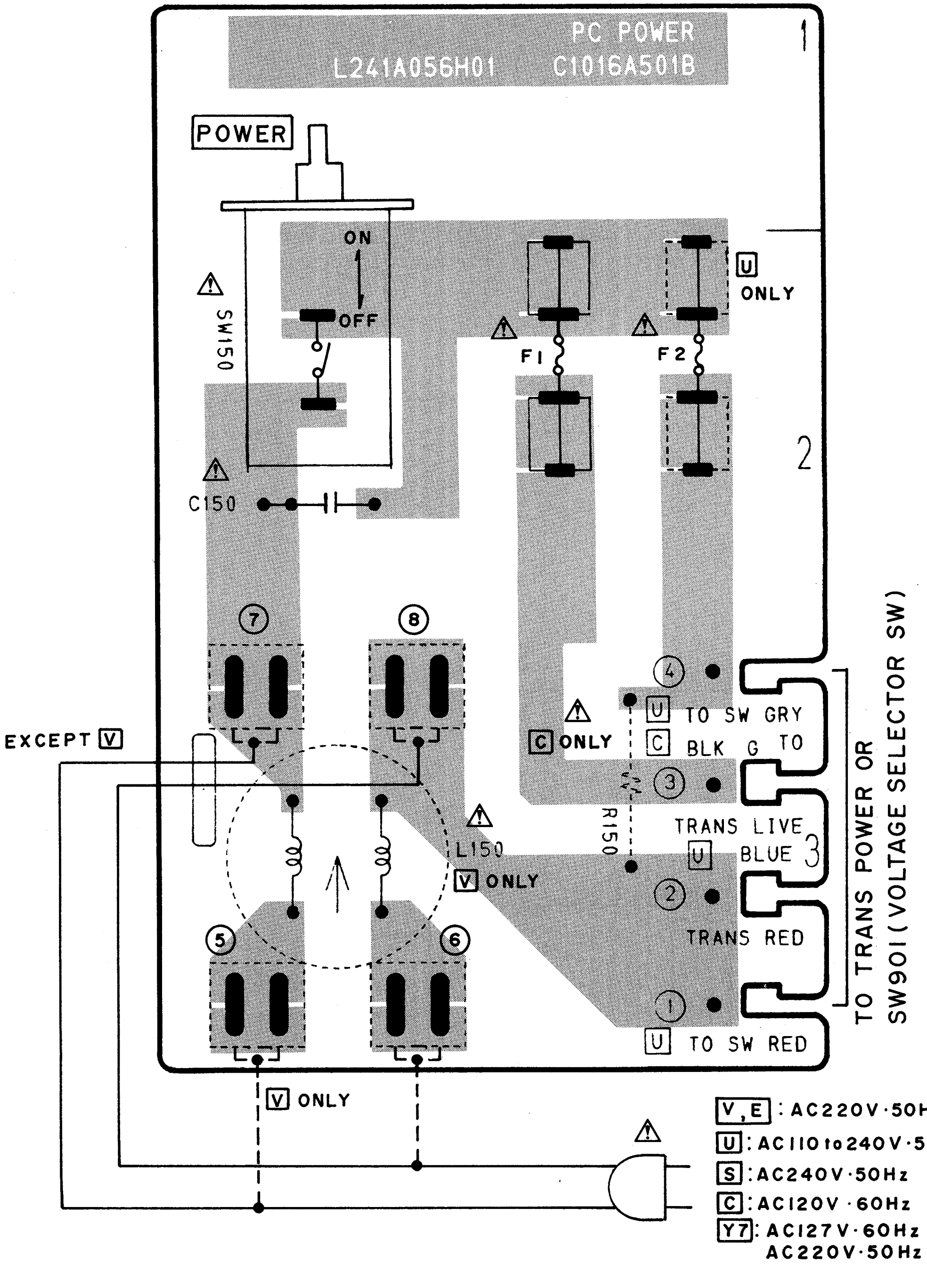

SPEAKERS
R
L
+
−
−
+
TM101
L102
BROKEN LINE : V ONLY
C131b
V ONLY
C131
V ONLY
V EXCEPT
TO HEAD PHONE PCB WW105
W105
R3
G2
L1
C103
D102
YLW
TO TRANS POWER
C109
D103
C102
F5
YLW
F4
RED
BLK
R103
C101
F3
RED
U MODEL ONLY
EXCEPT
U MODEL ONLY
C107
D101
R109
R108
C111
D109
R102
C105
R101
C104
TR102
D107
C114
C113
R105
D108
R104
R106
C106
C108
C112
C110
R107
D110
D111
D106
C115
D105
TR106
C1016A501F
L241A056H01
TR103
TR105
TR101

Parts indicated ▨ are used for models AC- M512 / L and AC- A510 / L only.

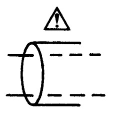

WW105
R
G
L
TO MAIN PCB
W105
HEAD PHONE
J160
C160b
V
R160b
R160
C1016A501C
L241A056H01
PC HP
WW102
R L
TO MAIN PCB
W102
C160 V
8
7
3
2
4
5
1

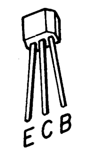
HEAD PHONE PCB C1016A501C

POWER SW PCB C1016A501B


PC POWER
L241A056H01
C1016A501B
1
POWER
ON
OFF
SW150
U ONLY
F1
F2
2
C150
⑦
⑧
④
U TO SW GRY
C ONLY
C BLK G TO
③
EXCEPT V
R150
TRANS LIVE
U BLUE
3
L150
V ONLY
②
TRANS RED
⑤
⑥
①
U TO SW RED
TO TRANS POWER OR SW901 (VOLTAGE SELECTOR SW)
V ONLY

V,E : AC220V·50Hz
U : AC110 to 240V·50/60Hz
S : AC240V·50Hz
C : AC120V ·60Hz
Y7 : AC127V·60Hz
AC220V·50Hz

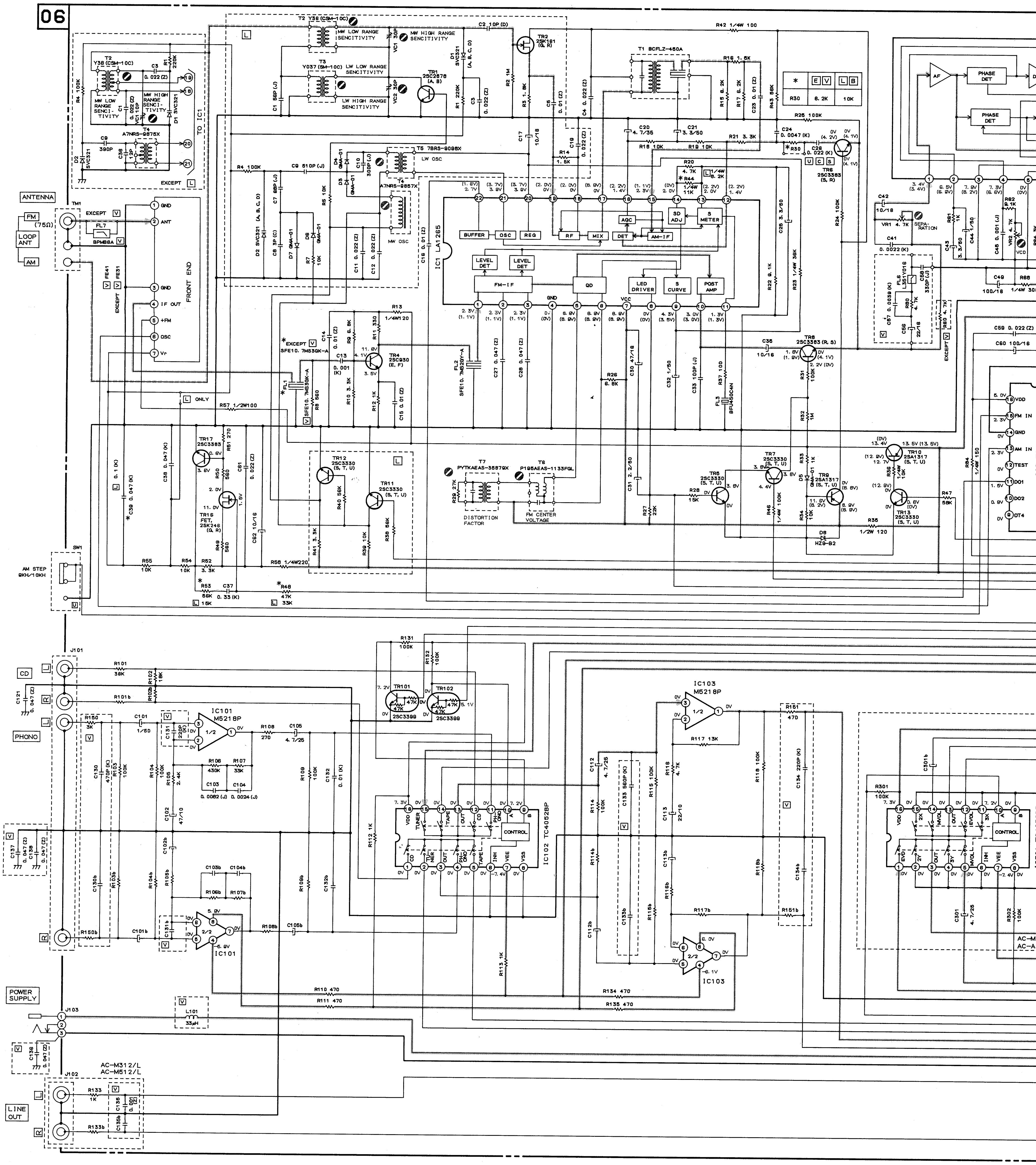

B : AC240V·50Hz



C3330(T,U)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


06
ANTENNA
FM (75Ω)
LOOP ANT
AM
TM1
FRONT END
TO IC1
EXCEPT L
IC1 LA1265
BUFFER
OSC
REG
RF
MIX
DET
AGC
AM-IF
SD ADJ
S METER
LEVEL DET
FM-IF
QD
LED DRIVER
S CURVE
POST AMP
T1 BCFLZ-450A
T2 Y38 (CSM-10C)
T3 Y037 (SM-10C)
T4 A7NR5-9857X
T5 7BR5-9098X
T6 P195AEAS-1133FGL
T7 PYTKAEAS-35879X
DISTORTION FACTOR
FM CENTER VOLTAGE
MW LOW RANGE SENCITIVITY
MW HIGH RANGE SENCITIVITY
LW LOW RANGE SENCITIVITY
LW HIGH RANGE SENCITIVITY
LW OSC
MW OSC
SW1
AM STEP 9KH/10KH
PHASE DET
AF
SEPA-RATION
VCO
CD
PHONO
J101
IC101 M5218P
IC102 TC4052BP
IC103 M5218P
CONTROL
TR101 2SC3399
TR102 2SC3399
POWER SUPPLY
J103
L101 33μH
AC-M312/L
AC-M512/L
J102
LINE OUT

BASE PCB/C1016A5020:EXCEPT L MODEL
C1016A5025:L MODEL

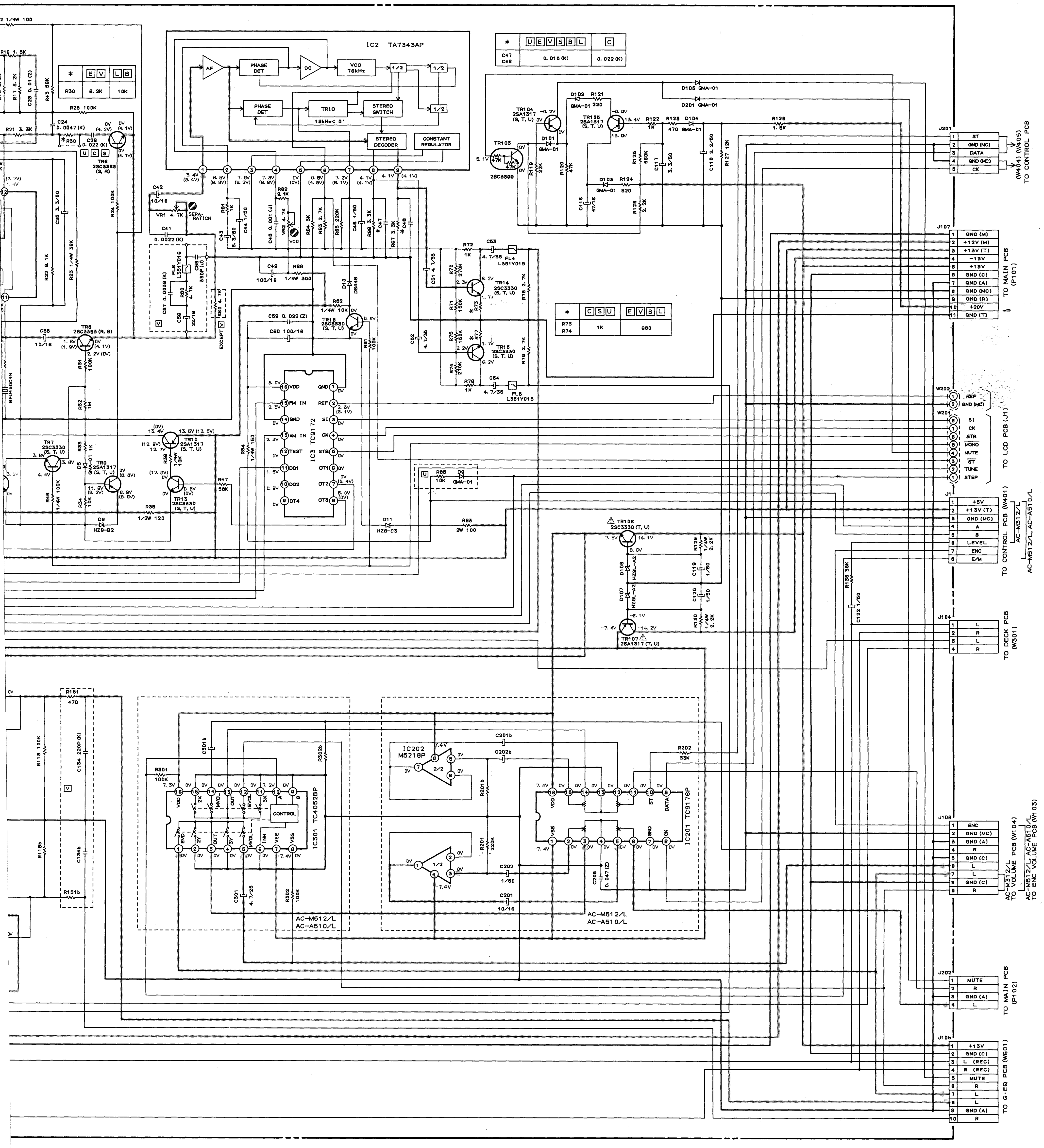
VOLTAGE AT FM STEREO TUNE MODE

(　　) AT AM TUNE MODE

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

:FM SIGNAL LIN
:AM SIGNAL LIN
:B (POWER SUPPL


IC2 TA7343AP
AF
PHASE DET
DC
VCO 76kHz
1/2
TR10
19kHz< 0°
STEREO SWITCH
STEREO DECODER
CONSTANT REGULATOR
VR1 4.7K SEPARATION
VR2 4.7K VCO
FL6 L351Y016
FL4 L351Y015
FL5 L351Y015
EXCEPT V
IC3 TC9172
VDD
FM IN
GND
AM IN
TEST
DO1
DO2
OT4
REF
SI
CK
STB
OT1
OT2
OT3
TR6 2SC3383 (S, R)
TR8 2SC3383 (R, S)
TR7 2SC3330 (S, T, U)
TR9 2SA1317 (S, T, U)
TR10 2SA1317 (S, T, U)
TR13 2SC3330 (S, T, U)
TR14 2SC3330 (S, T, U)
TR15 2SC3330 (S, T, U)
TR18 2SC3330 (S, T, U)
TR103 2SC3399
TR104 2SA1317 (S, T, U)
TR105 2SA1317 (S, T, U)
TR106 2SC3330 (T, U)
TR107 2SA1317 (T, U)
D8 HZ9-B2
D10 DS448
D11 HZ6-C3
D101 GMA-01
D102 GMA-01
D103 GMA-01
D104 GMA-01
D105 GMA-01
D201 GMA-01
D106 HZ9L-A2
D107 HZ9L-A2
*	E V	L B
R30	6.2K	10K
*	U E V S B L	C
C47 C48	0.018 (K)	0.022 (K)
*	C S U	E V B L
R73 R74	1K	680
IC202 M5218P
IC201 TC9176P
IC301 TC4052BP
CONTROL
AC-M512/L AC-A510/L
J201
1 ST
2 GND (MC)
3 DATA
4 GND (MC)
5 CK
(W404) (W405) TO CONTROL PCB
J107
1 GND (M)
2 +12V (M)
3 +13V (T)
4 −13V
5 +13V
6 GND (C)
7 GND (A)
8 GND (MC)
9 GND (R)
10 +20V
11 GND (T)
TO MAIN PCB (P101)
W202
1 REF
2 GND (MC)
W201
8 SI
7 CK
6 STB
5 MONO
4 MUTE
3 ST
2 TUNE
1 STEP
TO LCD PCB (J1)
J1
1 +5V
2 +13V (T)
3 GND (MC)
4 A
5 B
6 LEVEL
7 ENC
8 E/M
TO CONTROL PCB (W401)
AC-M312/L
AC-M512/L, AC-A510/L
J104
1 L
2 R
3 L
4 R
TO DECK PCB (W301)
J108
1 ENC
2 GND (MC)
3 GND (A)
4 R
5 GND (C)
6 L
7 L
8 GND (C)
9 R
AC-M312/L TO VOLUME PCB (W104)
AC-M512/L, AC-A510/L TO ENC VOLUME PCB (W103)
J202
1 MUTE
2 R
3 GND (A)
4 L
TO MAIN PCB (P102)
J105
1 +13V
2 GND (C)
3 L (REC)
4 R (REC)
5 MUTE
6 R
7 L
8 L
9 GND (A)
10 R
TO G·EQ PCB (W601)

TEREO TUNE MODE

UNE MODE

═ :FM SIGNAL LINE
╍ :AM SIGNAL LINE
═ :B (POWER SUPPLY) LINE

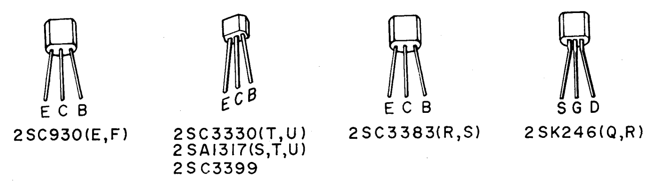
RITICAL COMPONENTS FOR CONTINUED SAFETY,
CAL COMPONENTS ONLY WITH MANUFACTURER'S

S COMPOSANTS CRITIQUES DE SÉCURITÉ.
GRÉ DE SÉCURITÉ DE L'APPAREIL,
S PIECES RECOMMANDEES PAR LE FABRICANT

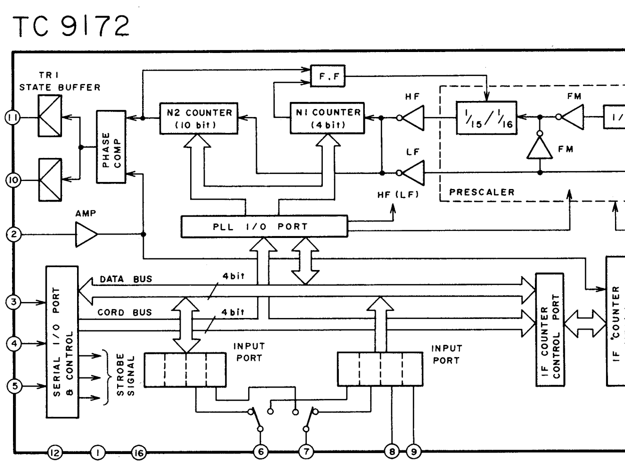
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN µF 50WV (M)

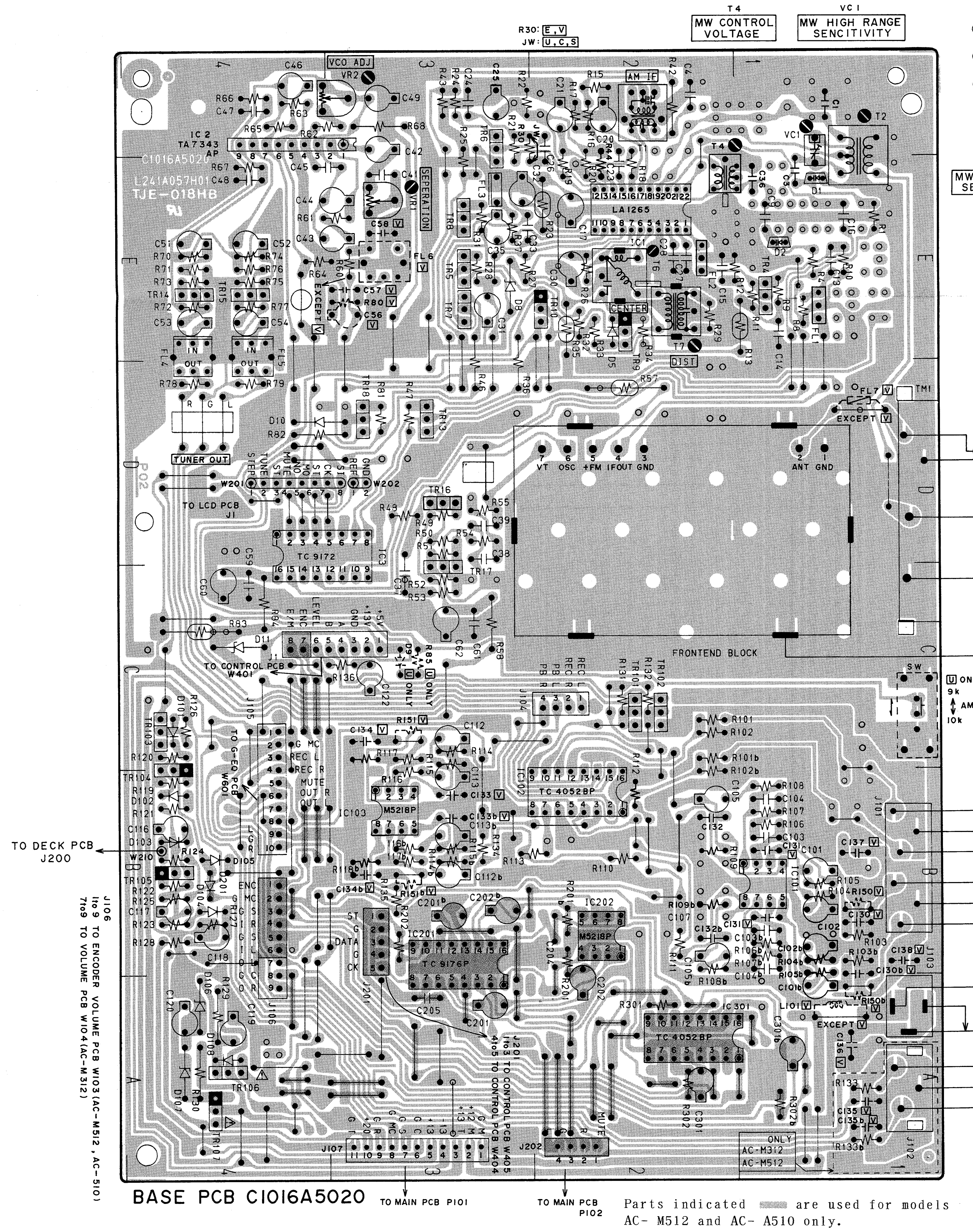
BASE
SCHEMATIC DIAGRAM

NO. 7-3 870425A


E C B
2SC930(E,F)
E C B
2SC3330(T,U)
2SA1317(S,T,U)
2SC3399
E C B
2SC3383(R,S)
S G D
2SK246(Q,R)

TC 9172


TR1
STATE BUFFER
PHASE COMP
N2 COUNTER (10 bit)
N1 COUNTER (4 bit)
F.F
HF
FM
LF
1/15 / 1/16
HF (LF)
PRESCALER
AMP
PLL I/O PORT
DATA BUS
CORD BUS
4bit
SERIAL I/O PORT & CONTROL
STROBE SIGNAL
INPUT PORT
IF COUNTER CONTROL PORT


T4
MW CONTROL VOLTAGE
VC1
MW HIGH RANGE SENCITIVITY
R30: E,V
JW: U,C,S
T2
MW LOW RANGE SENCITIVITY
VCO ADJ
VR2
AM IF
SEPERATION
CENTER
DIST
IC2 TA7343AP
C1016A5020
L241A057H01
TJE-018HB
LA1265
TC 9172
TUNER OUT
TO LCD PCB J1
TO CONTROL PCB W401
FRONTEND BLOCK
FM ANT
AM LOOP ANT
TO CHASSIS GND
U ONLY
9k
AMSTEP
10k
CD
PHONO
POWER SUPPLY
LINE OUT
TO DECK PCB J200
J106 1to 9 TO ENCODER VOLUME PCB W103 (AC-M512, AC-510)
7to9 TO VOLUME PCB W104 (AC-M312)
TO G-EQ PCB W601
TC 4052BP
M5218P
TC 9176P
J201 4to5 TO CONTROL PCB W405
1to3 TO CONTROL PCB W404
ONLY AC-M312 AC-M512
TO MAIN PCB P101
TO MAIN PCB P102

BASE PCB C1016A5020

Parts indicated ▨ are used for models AC- M512 and AC- A510 only.

LOCATION ON CONPONENT

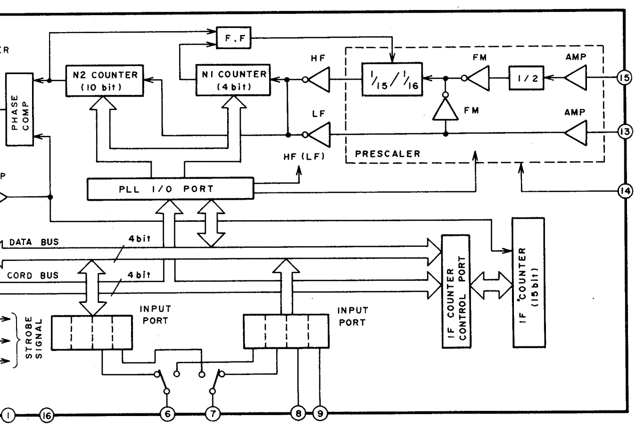
IC	TR		CONNECTOR
IC1 ···· E2	TR4 ···· E1	TR16 ···· D3	J1 ···· C3
IC2 ···· F4	TR5 ···· E3	TR17 ···· C3	J104 ·· C2
IC3 ···· D4	TR6 ···· E3	TR18 ···· D3	J105 ·· B4
IC101 ·· B1	TR7 ···· E3	TR101 ··· C2	J106 ·· B4
IC102 ·· B2	TR8 ···· E3	TR102 ··· C2	J107 ·· A3
IC103 ·· B3	TR9 ···· E2	TR103 ··· C4	J201 ·· B3
IC201 ·· B3	TR10 ··· E2	TR104 ··· C4	J202 ·· A2
IC202 ·· B2	TR13 ··· D3	TR105 ··· B4	W201 ·· D4
IC301 ·· A2	TR14 ··· E4	TR106 ··· A4	W202 ·· D3
	TR15 ··· E4	TR107 ··· A4	

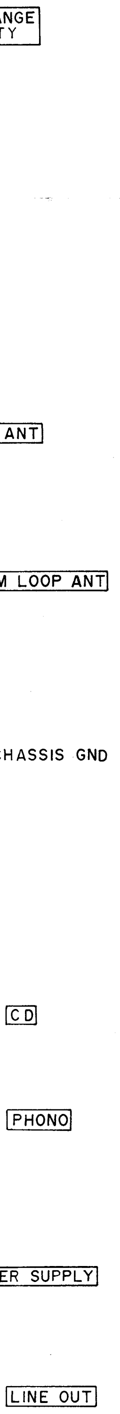
■●● ···· PNP TRANSISTOR
●●● ···· NPN TRANSISTOR
●|●|● ···· FET TRANSISTOR
S G D

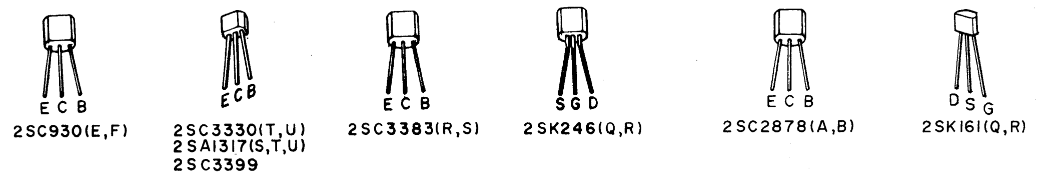
TR4 ···· 2SC930(E,F)
TR5,TR7,TR13,TR14,TR15,TR18,TR106 ···· 2SC3330(T,U)
TR6,TR8,TR17 ···· 2SC3383(R,S)
TR9,TR10,TR104,TR105,TR107 ···· 2SA1317(S,T,U)
TR16 ···· 2SK246(Q,R)
TR101,TR102,TR103 ···· 2SC3399

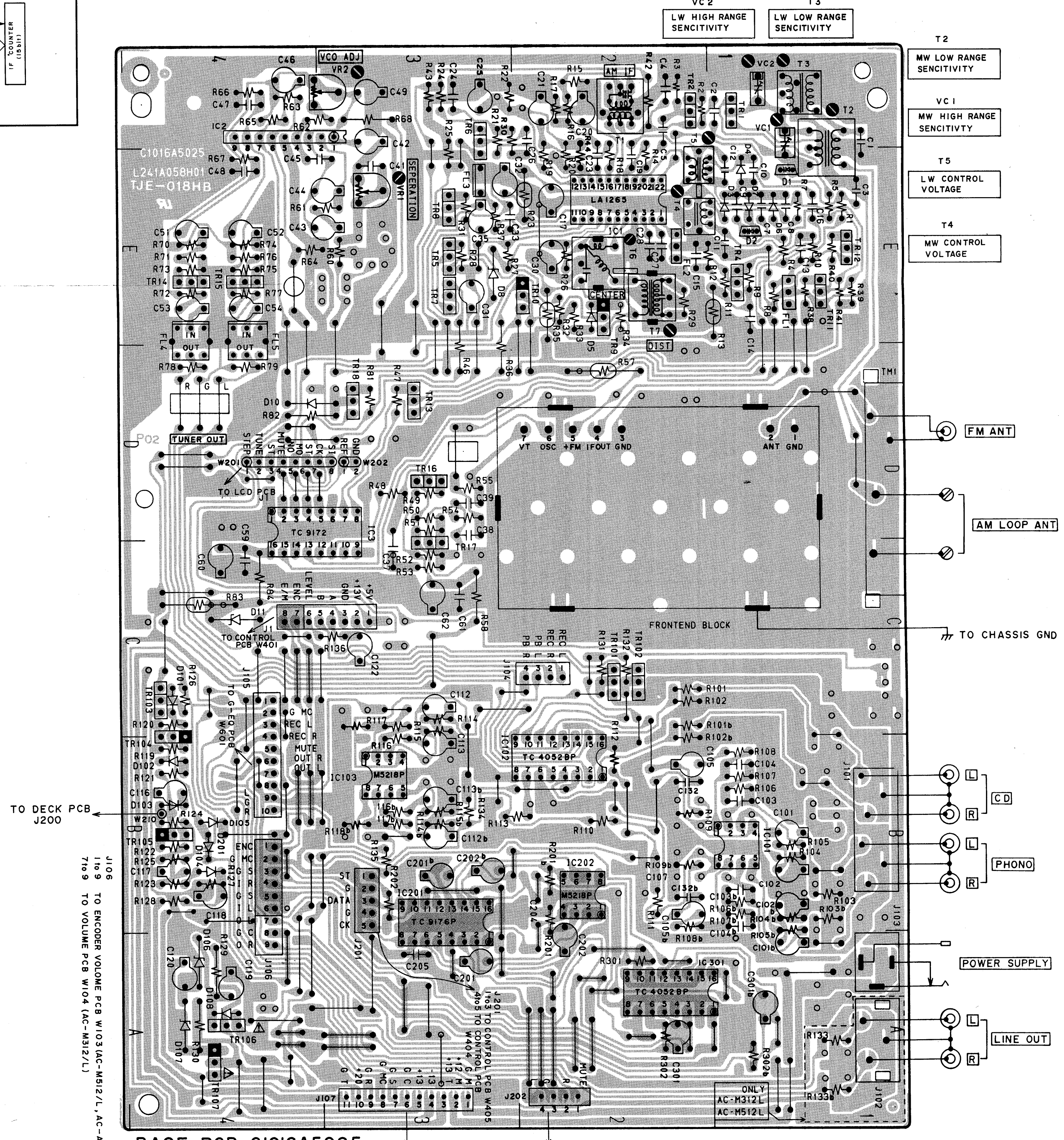
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


F.F
N2 COUNTER (10 bit)
N1 COUNTER (4 bit)
HF
LF
1/15 / 1/16
FM
1/2
AMP
PRESCALER
HF (LF)
PHASE COMP
PLL I/O PORT
DATA BUS
CORD BUS
4bit
INPUT PORT
STROBE SIGNAL
IF COUNTER CONTROL PORT
IF COUNTER (15bit)
15
13
14
1
16
6
7
8
9


NGE
TY
ANT
M LOOP ANT
HASSIS GND
CD
PHONO
ER SUPPLY
LINE OUT


E C B
2SC930(E,F)
E C B
2SC3330(T,U)
2SA1317(S,T,U)
2SC3399
E C B
2SC3383(R,S)
S G D
2SK246(Q,R)
E C B
2SC2878(A,B)
D S G
2SK161(Q,R)


VC2
LW HIGH RANGE SENCITIVITY
T3
LW LOW RANGE SENCITIVITY
T2
MW LOW RANGE SENCITIVITY
VC1
MW HIGH RANGE SENCITIVTY
T5
LW CONTROL VOLTAGE
T4
MW CONTROL VOLTAGE
VCO ADJ
VR2
VR1
SEPERATION
AM IF
CENTER
DIST
LA1265
C1016A5025
L241A058H01
TJE-018HB
TUNER OUT
TO LCD PCB
TC9172
TO CONTROL PCB W401
VT OSC +FM IFOUT GND
ANT GND
FRONTEND BLOCK
FM ANT
AM LOOP ANT
TO CHASSIS GND
TO DECK PCB J200
J106
1to9 TO ENCODER VOLOME PCB W103 (AC-M512/L, AC-A510/L)
7to9 TO VOLUME PCB W104 (AC-M312/L)
TO G-EQ PCB W601
TC4052BP
M5218P
TC9176P
J201 1to3 TO CONTROL PCB W404
4to5 TO CONTROL PCB W405
CD L R
PHONO L R
POWER SUPPLY
LINE OUT L R
ONLY AC-M312L AC-M512L
MUTE
TO MAIN PCB P101
TO MAIN PCB P102

BASE PCB C1016A5025

Parts indicated ▨ are used for models AC- M512L and AC- A510L only.

LOCATION OF CONPONENT

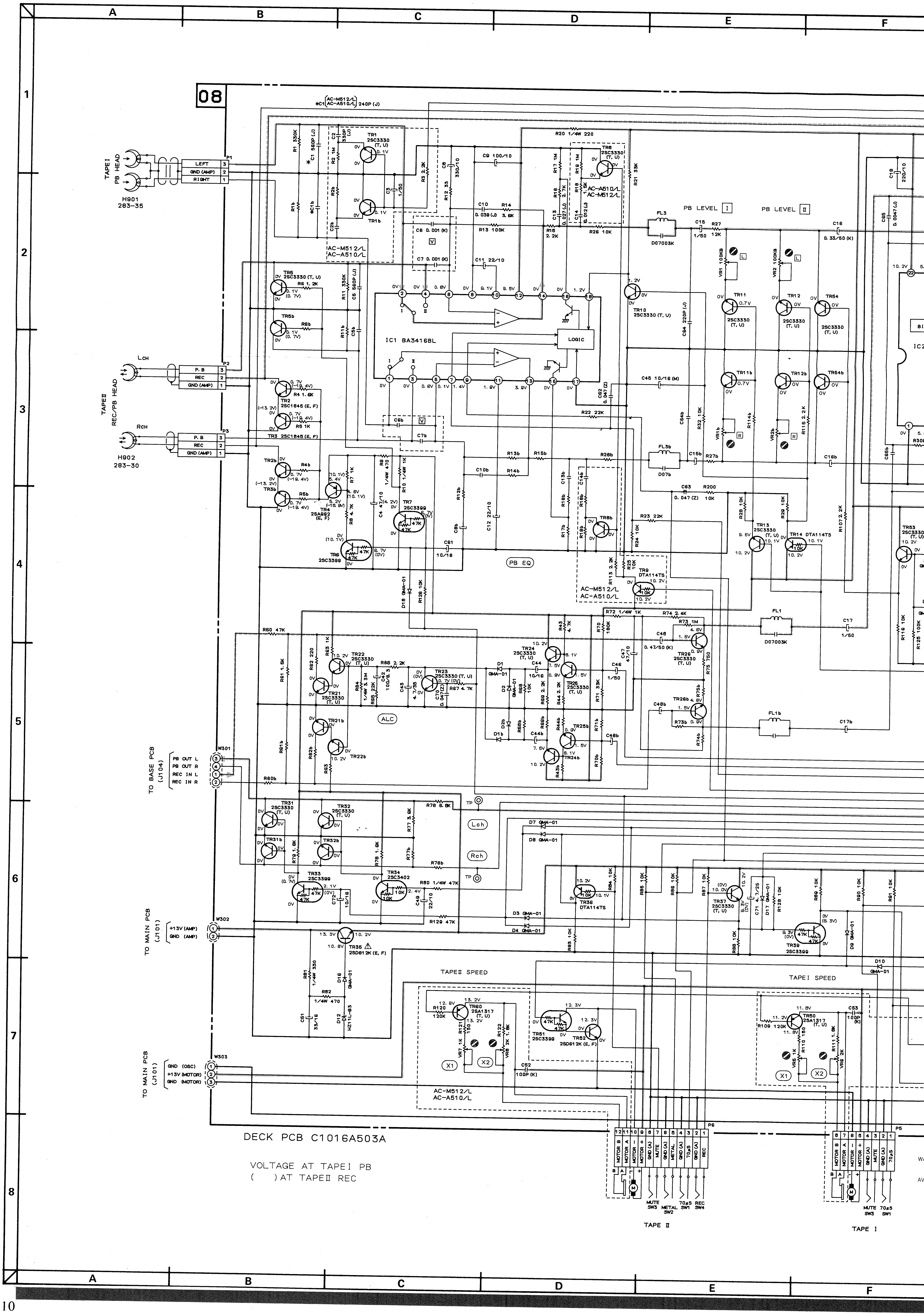
IC	TR		CONNECTOR
IC1 ···· E2	TR1 ···· F1	TR14 ···· E4	J1 ···· C3
IC2 ···· F4	TR2 ···· F2	TR15 ···· E4	J104 ·· C2
IC3 ···· D4	TR4 ···· E1	TR16 ···· D3	J105 ·· B4
IC101 ·· B1	TR5 ···· E3	TR17 ···· C3	J106 ·· B4
IC102 ·· B2	TR6 ···· E3	TR18 ···· D3	J107 ·· A3
IC103 ·· B3	TR7 ···· E3	TR101 ··· C2	J201 ·· B3
IC201 ·· B3	TR8 ···· E3	TR102 ··· C2	J202 ·· A2
IC202 ·· B2	TR9 ···· E2	TR103 ··· C4	W201 ·· D4
IC301 ·· A2	TR10 ··· E2	TR104 ··· C4	W202 ·· D3
	TR11 ··· E1	TR105 ··· B4	
	TR12 ··· E1	TR106 ··· A4	
	TR13 ··· D3	TR107 ··· A4	

■●● ···· PNP TRANSISTOR
●●● ···· NPN TRANSISTOR
●●● ···· FET TRANSISTOR
S G D

TR1 ···· 2SC2878(A,B)
TR2 ···· 2SK161(Q,R)
TR4 ···· 2SC930(E,F)
TR5,TR7,TR13,TR14,TR15,TR18,TR106 ···· 2SC3330(T,U)
TR6,TR8,TR17 ···· 2SC3383(R,S)
TR9,TR10,TR104,TR105,TR107 ···· 2SA1317(S,T,U)
TR11,TR12 ···· 2SC3330(S,T,U)
TR16 ···· 2SK246(Q,R)
TR101,TR102,TR103 ···· 2SC3399

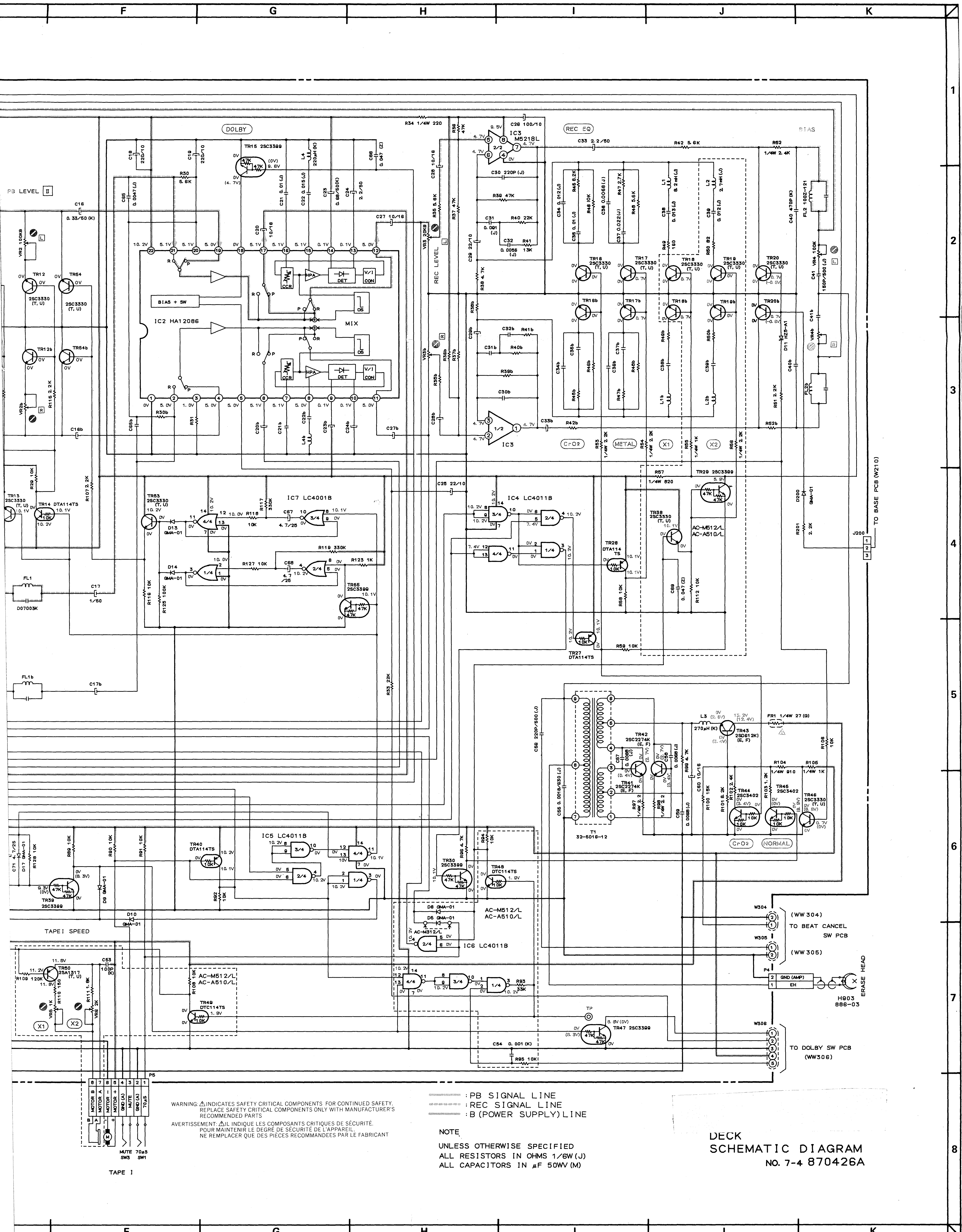
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


A
B
C
D
E
F
1
2
3
4
5
6
7
8
08
TAPE I PB HEAD
H901 283-35
LEFT
GND (AMP)
RIGHT
P1
TAPE II REC/PB HEAD
LCH
RCH
P.B
REC
GND (AMP)
P2
P3
H902 283-30
*C1 (AC-M512/L AC-A510/L) 240P (J)
TR1 2SC3330 (T, U)
TR1b
R1 330K
C1 560P (J)
C2 330P (J)
R2 1M
C3 1/50
R3 2.2K
C8 330/10
C9 100/10
R12 33
C10 0.039 (J)
R14 3.6K
R13 100K
R20 1/4W 220
R17 1M
R18 2.7K
R19 1M
TR8 2SC3330 (T, U)
R21 33K
C13 0.027 (J)
C14 0.012 (J)
R15 2.2K
R26 10K
AC-A510/L AC-M512/L
AC-M512/L AC-A510/L
C6 0.001 (K)
C7 0.001 (K)
C11 22/10
TR5 2SC3330 (T, U)
R6 1.2K
TR5b
R6b
R11 330K
C5 560P (J)
IC1 BA3416BL
LOGIC
TR10 2SC3330 (T, U)
FL3
D07003K
PB LEVEL I
PB LEVEL II
C15 1/50
R27 12K
C16 0.33/50 (K)
VR1 100KB
VR2 100KB
TR11 2SC3330 (T, U)
TR12 2SC3330 (T, U)
TR54 2SC3330 (T, U)
C64 220P (J)
C45 10/16 (M)
C62 0.047 (Z)
R22 22K
R32 10K
R114b
R115 2.2K
TR11b
TR12b
TR54b
C18 220/10
C65 0.0047 (J)
IC2
TR2 2SC1845 (E, F)
R4 1.6K
TR3 2SC1845 (E, F)
R5 1K
TR2b
TR3b
R4b
R5b
TR4 2SA992 (E, F)
R7 1K
R8 4.7K
R9 470
R10 1/4W 1K
C4 47/10
TR7 2SC3399
TR6 2SC3399
C61 10/16
R13b
R15b
R14b
C10b
C12 22/10
C8b
R12b
R28b
FL3b
D07b
C15b
R27b
C16b
C63 0.047 (Z)
R200 10K
R28 10K
R29 10K
TR13 2SC3330 (T, U)
TR14 DTA114TS
R107 2.2K
TR53 2SC3330 (T, U)
R23 22K
R24 10K
R113 2.2K
R25 10K
TR9 DTA114TS
TR8b
R16b
R18b
R17b
R19b
C13b
C14b
PB EQ
D16 GMA-01
R128 10K
R72 1/4W 1K
R74 2.4K
R73 1M
FL1
D07003K
C17 1/50
R116 10K
R125 100K
R60 47K
R61 5.6K
R62 220
R63 1K
TR22 2SC3330 (T, U)
TR21 2SC3330 (T, U)
R66 2.2K
R64 1/4W 3.3M
R65 22K
C42 100/6.3
C43 4.7/35
TR23 2SC3330 (T, U)
C70 0.047 (Z)
R67 4.7K
TR24 2SC3330 (T, U)
R43 4.7K
R70 180K
C44 10/16
D1 GMA-01
D2 GMA-01
R68 10K
R69 2.2K
R44 2.2K
TR25 2SC3330 (T, U)
R71 33K
C47 47/10
C48 0.47/50 (K)
TR26 2SC3330 (T, U)
R75 750
C46 1/50
ALC
TR21b
TR22b
R61b
R62b
R63
D1b
D2b
R68b
R69b
C44b
R44b
TR25b
R71b
R70b
TR24b
R43b
C48b
TR26b
R73b
R74b
R75b
FL1b
C17b
TO BASE PCB (J104)
PB OUT L
PB OUT R
REC IN L
REC IN R
W301
R60b
TR31 2SC3330 (T, U)
TR32 2SC3330 (T, U)
TR31b
TR32b
R79 1.5K
R78 1.5K
R77 3.6K
R77b
R76 6.8K
R76b
TP
Lch
Rch
D7 GMA-01
D8 GMA-01
TR33 2SC3399
TR34 2SC3402
C72 10/16
C49 22/10
R80 1/4W 47K
R129 47K
TR36 DTA114TS
R84 10K
R85 10K
R86 10K
R87 10K
R83 10K
D3 GMA-01
D4 GMA-01
TR37 2SC3330 (T, U)
C71 4.7/25
D17 GMA-01
R126 10K
R89 10K
TR39 2SC3399
R90 10K
R91 10K
D9 GMA-01
D10 GMA-01
R88 10K
TO MAIN PCB (J101)
+13V (AMP)
GND (AMP)
W302
TR35 2SD612K (E, F)
R81 1/4W 330
D18 GMA-01
R82 1/4W 470
C51 33/16
D12 HZ11L-B3
TAPE II SPEED
R120 120K
TR60 2SA1317 (T, U)
R121 150
R122 1.5K
VR7 1K
VR8 2K
X1
X2
TR61 2SC3399
TR52 2SD612K (E, F)
C52 100P (K)
AC-M512/L AC-A510/L
TAPE I SPEED
R109 120K
TR50 2SA1317 (T, U)
R110 150
R111 1.5K
VR5 1K
VR6 2K
C53 100P (K)
TO MAIN PCB (J101)
GND (OSC)
+13V (MOTOR)
GND (MOTOR)
W303
P6
12 11 10 9 8 7 6 5 4 3 2 1
MOTOR B
MOTOR A
MOTOR -
MOTOR +
GND (A)
MUTE
GND (A)
METAL
GND (A)
70μS
GND (A)
REC
M
MUTE SW3
METAL SW2
70μS SW1
REC SW4
TAPE II
P5
8 7 6 5 4 3 2 1
MOTOR B
MOTOR A
MOTOR -
MOTOR +
GND (A)
MUTE
GND (A)
70μS
MUTE SW3
70μS SW1
TAPE I

DECK PCB C1016A503A

VOLTAGE AT TAPE I PB
(   ) AT TAPE II REC


F
G
H
I
J
K
1
2
3
4
5
6
7
8
DOLBY
REC EQ
BIAS
PB LEVEL II
IC2 HA12086
BIAS + SW
MIX
CCR
HPA
DET
V/I CON
IC3 M5218L
IC3
TR15 2SC3399
TR12 2SC3330 (T, U)
TR54 2SC3330 (T, U)
TR12b
TR54b
TR13 2SC3330 (T, U)
TR14 DTA114TS
TR53 2SC3330 (T, U)
IC7 LC4001B
TR55 2SC3399
IC4 LC4011B
TR18 2SC3330 (T, U)
TR17 2SC3330 (T, U)
TR16 2SC3330 (T, U)
TR19 2SC3330 (T, U)
TR20 2SC3330 (T, U)
TR16b
TR17b
TR18b
TR19b
TR20b
CrO2
METAL
X1
X2
TR29 2SC3399
TR38 2SC3330 (T, U)
AC-M512/L
AC-A510/L
TR28 DTA114TS
TR27 DTA114TS
TO BASE PCB (W210)
J200
FL1
D0700SK
FL1b
FL2 1002-121
T1 32-5018-12
TR42 2SC2274K (E, F)
TR41 2SC2274K (E, F)
TR43 2SD612K (E, F)
L3 270μH (K)
FR1 1/4W 27 (G)
TR44 2SC3402
TR45 2SC3402
TR46 2SC3330 (T, U)
CrO2
NORMAL
IC5 LC4011B
TR40 DTA114TS
TR39 2SC3399
TR30 2SC3399
TR48 DTC114TS
D8 GMA-01
D5 GMA-01
AC-M312/L
IC6 LC4011B
D10 GMA-01
TAPE I SPEED
TR50 2SA1317 (T, U)
TR49 DTC114TS
AC-M512/L
AC-A510/L
TP
TR47 2SC3399
W304
(WW304)
TO BEAT CANCEL SW PCB
W305
(WW305)
P4
GND (AMP)
EH
ERASE HEAD
H903 886-03
W306
TO DOLBY SW PCB (WW306)
P5
MOTOR B
MOTOR A
MOTOR -
MOTOR +
GND (A)
MUTE
GND (A)
70μS
MUTE SW3
70μS SW1
TAPE I

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

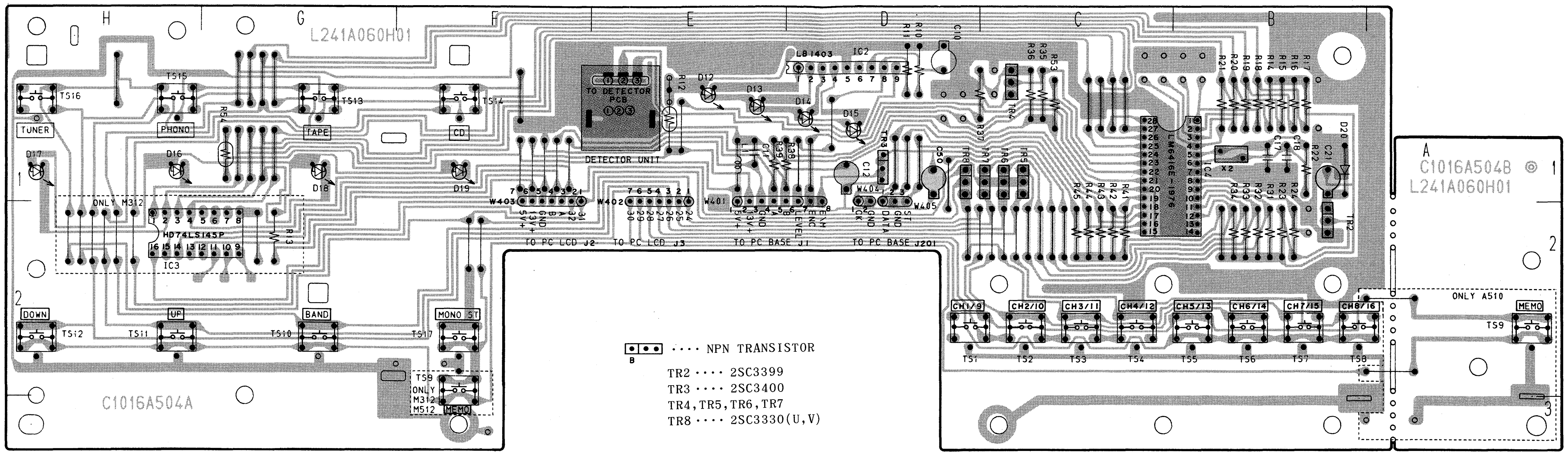
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

▬ : PB SIGNAL LINE
▬ : REC SIGNAL LINE
▬ : B (POWER SUPPLY) LINE

NOTE

UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μF 50WV (M)

DECK
SCHEMATIC DIAGRAM
NO. 7-4 870426A

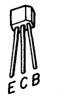

L241A060H01
C1016A504A
TUNER
PHONO
TAPE
CD
DOWN
UP
BAND
MONO ST
MEMO
TS9 ONLY M312 M512
TO DETECTOR PCB
DETECTOR UNIT
ONLY M312
HD74LS145P
IC3
IC2
LM6416E-1976
TO PC LCD J2
TO PC LCD J3
TO PC BASE J1
TO PC BASE J201
CH1/9
CH2/10
CH3/11
CH4/12
CH5/13
CH6/14
CH7/15
CH8/16
C1016A504B
L241A060H01
ONLY A510

B ···· NPN TRANSISTOR

TR2 ···· 2SC3399
TR3 ···· 2SC3400
TR4, TR5, TR6, TR7
TR8 ···· 2SC3330(U,V)

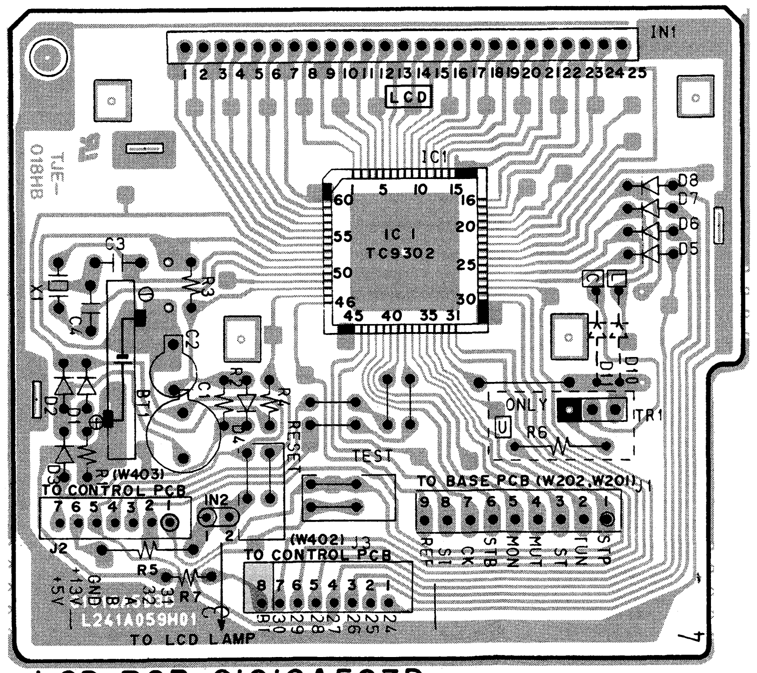
CONTROL PCB C1016A504A

MEMORY SW PCB C1016A504B

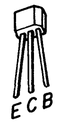


2SC3399
2SC3400
2SC3330(U,V)

Parts indicated ▨ are used for models AC- M512/L and AC- A510/L only.


IN1
LCD
IC1
IC 1 TC9302
TJE-018HB
TO CONTROL PCB (W403) J2
TO CONTROL PCB (W402) J3
TO BASE PCB (W202,W201) J1
TO LCD LAMP
L241A059H01
RESET
TEST
ONLY U
TR1

LCD PCB C1016A503D



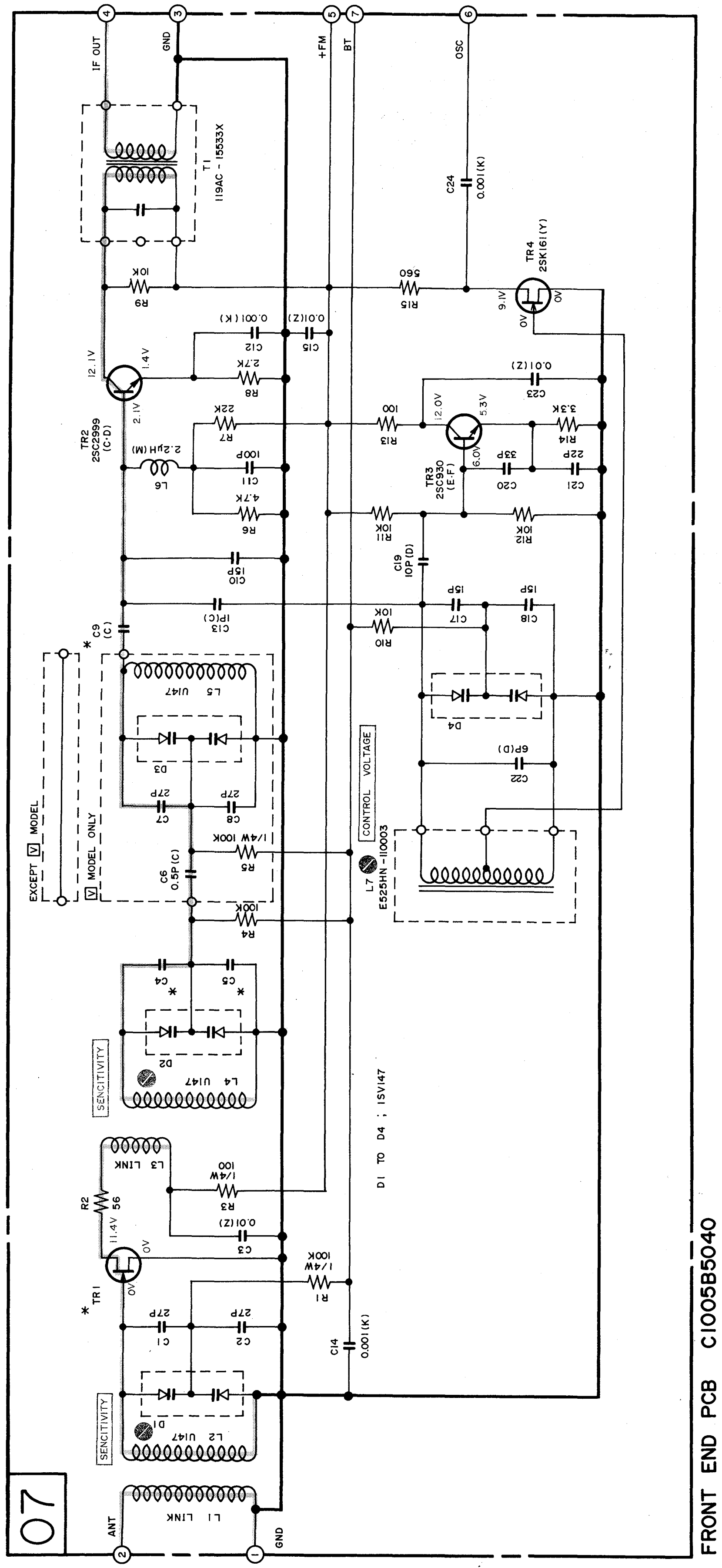
2SA1317(S,T,U)

Parts indicated ▨ are used for models AC- M512/L and AC- A510/L only.

TR1 ···· 2SA1317(S,T,U)
U ONLY

FRONT END SCHEMATIC DIAGRAM

NO. 7-6 870428A


07
ANT
GND
IF OUT
+FM
BT
OSC
T1 119AC-15533X
L1 LINK
L2 U147
L3 LINK
L4 U147
L5 U147
L6 2.2μH(M)
L7 E525HN-110003
TR1
TR2 2SC2999 (C-D)
TR3 2SC930 (E,F)
TR4 2SK161(Y)
D1
D2
D3
D4
SENCITIVITY
CONTROL VOLTAGE
EXCEPT V MODEL
V MODEL ONLY
D1 TO D4 ; 1SV147
R1 100K 1/4W
R2 56
R3 100 1/4W
R4 100K
R5 100K 1/4W
R6 4.7K
R7 22K
R8 2.7K
R9 10K
R10 10K
R11 10K
R12 10K
R13 100
R14 3.3K
R15 560
C1 27P
C2 27P
C3 0.01(Z)
C4
C5
C6 0.5P(C)
C7 27P
C8 27P
C9 (C)
C10 15P
C11 100P
C12 0.001(K)
C13 1P(C)
C14 0.001(K)
C15 0.01(Z)
C17 15P
C18 15P
C19 10P(D)
C20 33P
C21 22P
C22 6P(D)
C23 0.01(Z)
C24 0.001(K)
12.1V
1.4V
2.1V
12.0V
5.3V
6.0V
9.1V
0V
11.4V

FRONT END PCB C1005B5040

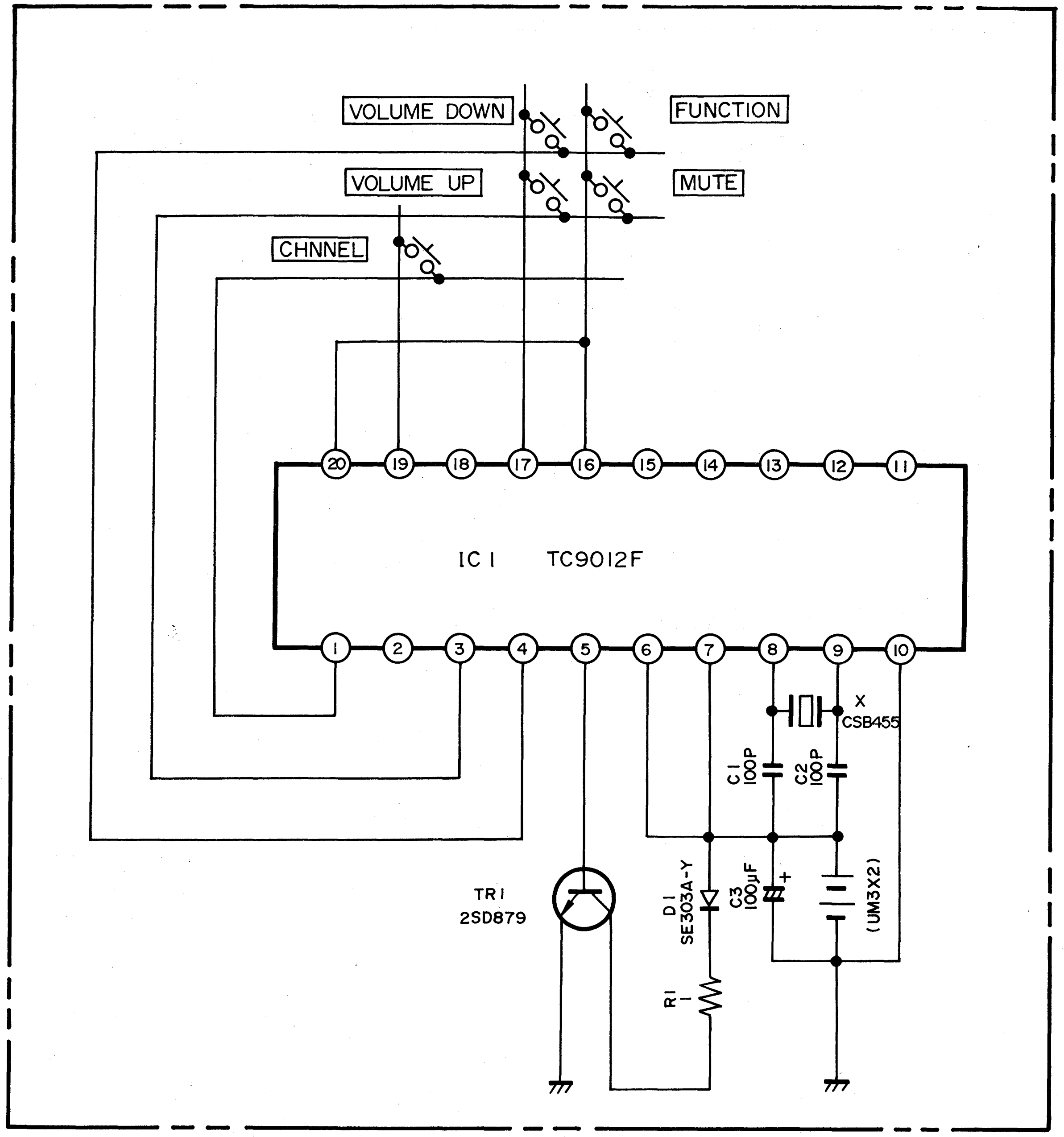
*		TR1	C4	C5	C9
	V	2SK241(Y)	33P	33P	5P
	EXCEPT V	2SK161	27P	18P	15P

▬ = SIGNAL LINE

EXCEPT V MODEL --- FE31

V MODEL ---- FE41

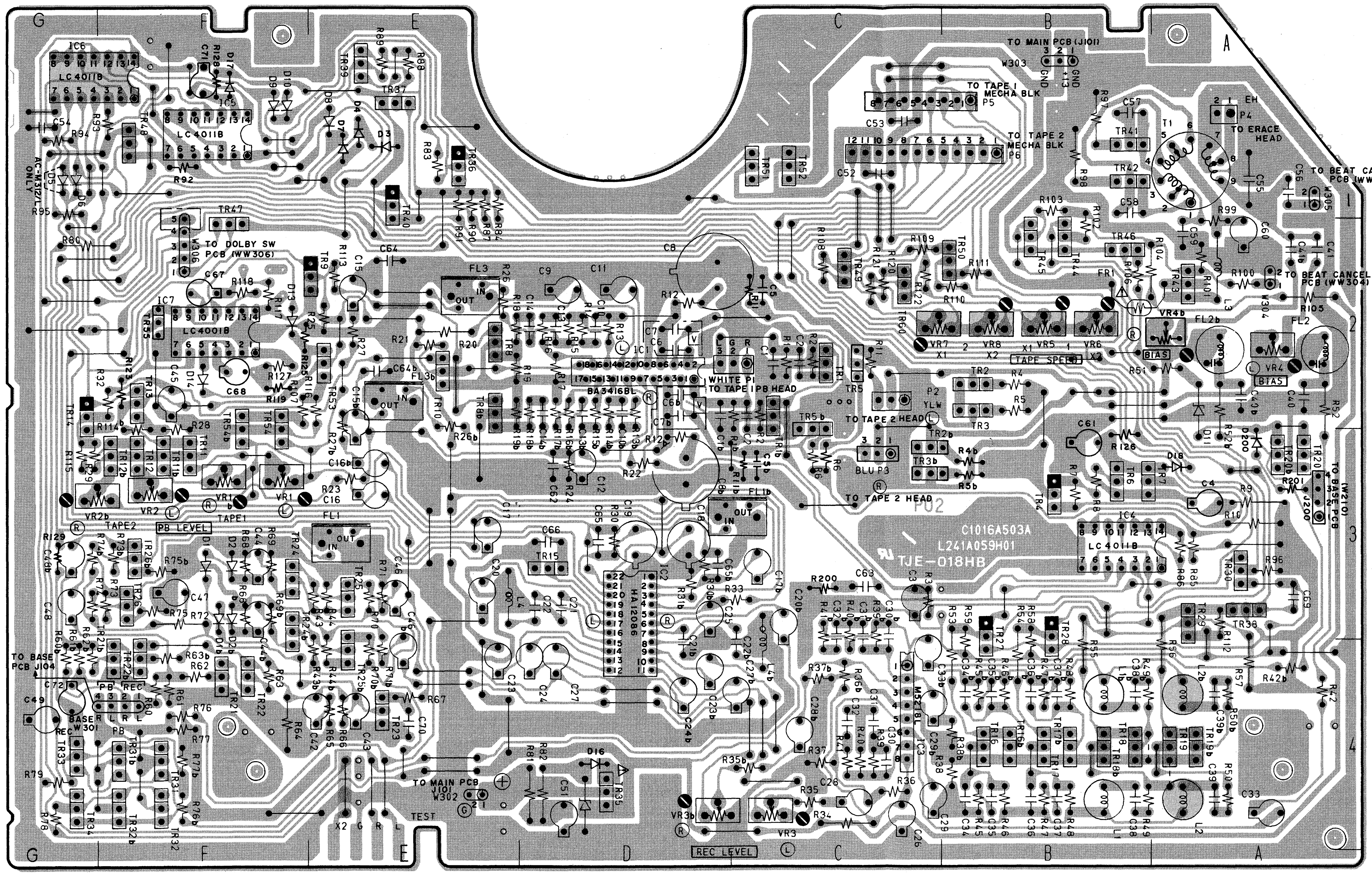
NOTE
UNLESS OTHERWISE SPECIFIED;
ALL RESISTORS IN OHMS 1/6W(J)
ALL CAPACITORS IN uF 50WV(J)


VOLUME DOWN
FUNCTION
VOLUME UP
MUTE
CHNNEL
IC1 TC9012F
20
19
18
17
16
15
14
13
12
11
1
2
3
4
5
6
7
8
9
10
X CSB455
C1 100P
C2 100P
TR1 2SD879
D1 SE303A-Y
C3 100μF
R1 1
(UM3X2)

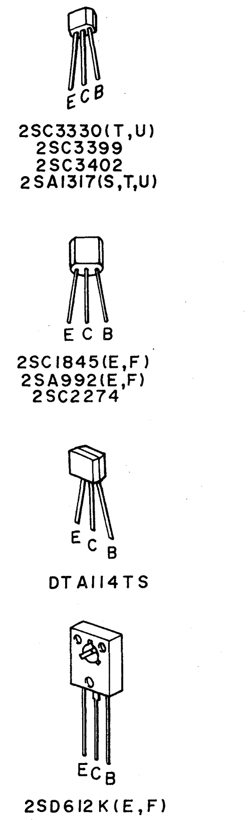
MODEL AC-M512/L, AC-A510/L ONLY

RC-S500
REMOTE CONTROL UNIT SCHEMATIC DIAGRAM

NO. 7-7 870429A


TO MAIN PCB (J101)
W303
TO TAPE 1 MECHA BLK P5
TO TAPE 2 MECHA BLK P6
TO ERACE HEAD
TO BEAT CANCEL SW PCB (WW305)
TO BEAT CANCEL SW PCB (WW304)
TO DOLBY SW PCB (WW306)
AC-M312/L ONLY
WHITE P1 TO TAPE 1 PB HEAD
TO TAPE 2 HEAD
TO TAPE 2 HEAD
TAPE SPEED
BIAS
PB LEVEL
TAPE2
TAPE1
C1016A503A
L241A059H01
TJE-018HB
TO BASE PCB J104
BASE W301
TO MAIN PCB J101 W302
TEST
REC LEVEL
TO BASE PCB (W210) J200
IC6 LC4011B
IC5 LC4011B
IC7 LC4001B
IC1 BA3416BL
IC2 HA12086
IC3 M5218L
IC4 LC4011B
G
F
E
D
C
B
A
1
2
3
4

DECK PCB C1016A503A


ECB
2SC3330(T,U)
2SC3399
2SC3402
2SA1317(S,T,U)
E C B
2SC1845(E,F)
2SA992(E,F)
2SC2274
E C B
DTA114TS
E C B
2SD612K(E,F)

Parts indicated----are used for models AC-M312/L ONLY.

Parts indicated ▨ are used for models AC- M512 / L and AC- A510 / L only.

LOCATION OF CONPONENT

IC	TR						CONNECTOR
IC1 ···· D2	TR1 ···· C2	TR9 ···· E2	TR18 ···· B4	TR25 ···· E3	TR34 ···· G4	TR47 ···· F2	P1 ···· C2
IC2 ···· D4	TR1b ··· C3	TR10 ··· E2	TR18b ··· A4	TR25b ··· E4	TR35 ···· D4	TR48 ···· F1	P2 ···· C2
IC3 ···· C4	TR2 ···· B2	TR11 ··· F3	TR19 ···· A4	TR26 ···· F3	TR36 ···· E1	TR49 ···· C2	P3 ···· C3
IC4 ···· B3	TR2b ··· C3	TR11b ·· F3	TR19b ··· A4	TR26b ··· F3	TR37 ···· E1	TR50 ···· B2	P4 ···· A1
IC5 ···· F1	TR3 ···· B2	TR12 ··· F3	TR20 ···· A3	TR27 ···· B4	TR38 ···· A3	TR51 ···· C1	P5 ···· C1
IC6 ···· F1	TR3b ··· C3	TR12b ·· F3	TR20b ··· A3	TR28 ···· B4	TR39 ···· E1	TR52 ···· C1	P6 ···· C1
IC7 ···· F2	TR4 ···· B3	TR13 ··· F2	TR21 ···· F4	TR29 ···· A3	TR40 ···· E1	TR53 ···· E2	W301 ·· F4
	TR5 ···· C2	TR14 ··· G2	TR21b ··· F4	TR30 ···· A3	TR41 ···· B1	TR54 ···· F2	W302 ·· E4
	TR5b ··· C3	TR15 ··· D3	TR22 ···· F4	TR31 ···· F4	TR42 ···· B1	TR54b ··· F2	W303 ·· B1
	TR6 ···· B3	TR16 ··· B4	TR22b ··· F4	TR31b ··· F4	TR43 ···· A2	TR55 ···· F2	W304 ·· A2
	TR7 ···· A3	TR16b ·· B4	TR23 ···· E4	TR32 ···· F4	TR44 ···· B2	TR60 ···· C2	W305 ·· A1
	TR8 ···· E2	TR17 ··· B4	TR24 ···· F3	TR32b ··· F4	TR45 ···· B2		W306 ·· F2
	TR8b ··· E2	TR17b ·· B4	TR24b ··· F4	TR33 ···· G4	TR46 ···· B2		J200 ·· A3

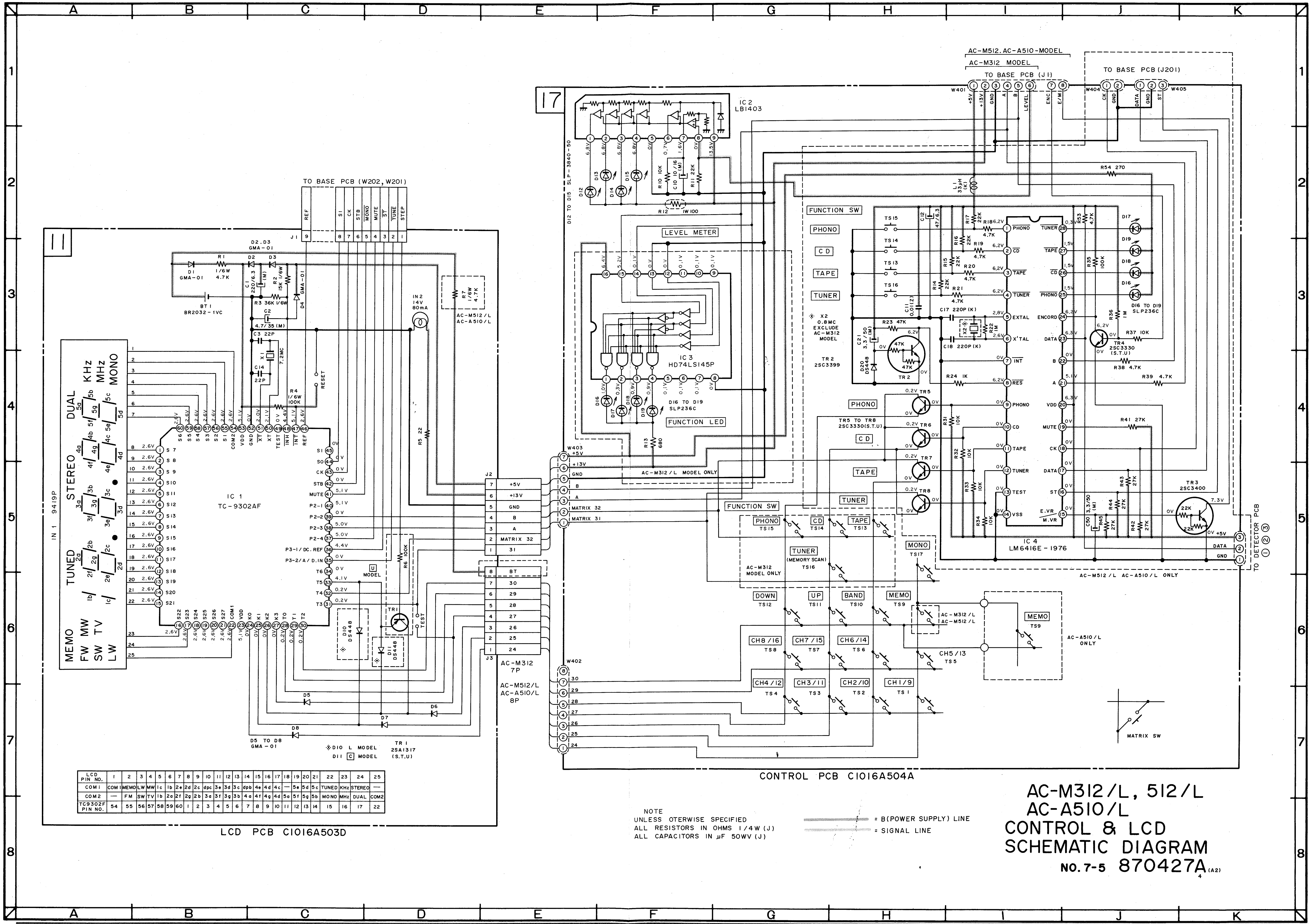
■●● ···· PNP TRANSISTOR
●●● ···· NPN TRANSISTOR

TR1, TR5, TR8, TR10, TR11
TR12, TR13, TR16, TR17
TR18, TR19, TR20, TR21
TR22, TR23, TR24, TR25
TR26, TR31, TR32, TR37
TR38, TR46, TR53, TR54
···· 2SC3330(T,U)

TR2, TR3 ···· 2SC1845(E,F)
TR4 ···· 2SA992(E,F)
TR6, TR7, TR15, TR29, TR30, TR39, TR47, TR51, TR55 ···· 2SC3399
TR9, TR14, TR27, TR28, TR36, TR40, TR48, TR49 ···· DTA114TS
TR33, TR34, TR44, TR45 ···· 2SC3402
TR35, TR43, TR52 ···· 2SD612K(E,F)
TR41, TR42 ···· 2SC2274K(F)

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


TO BASE PCB (W202, W201)
11
IC 1
TC-9302AF
IN 1 9419P
TUNED
STEREO
DUAL
KHz
MHz
MONO
MEMO
FW MW
SW TV
LW
BT 1
BR2032-1VC
D1
GMA-01
D2, D3
GMA-01
R1
1/6W
4.7K
R3 36K 1/6W
C2
4.7/35 (M)
C3 22P
X1
7.2MC
C14
22P
R4
1/6W
100K
RESET
IN 2
14V
80mA
R7
1/6W
4.7K
AC-M512/L
AC-A510/L
R5 22
R6 100K
TR1
TEST
D10
DS448
D11
DS448
D5
D6
D7
D8
D5 TO D8
GMA-01
※D10 L MODEL
D11 C MODEL
TR1
2SA1317
(S.T.U)
J1
J2
J3
AC-M312
7P
AC-M512/L
AC-A510/L
8P
17
IC 2
LB1403
D12 TO D15 SLP-3840-50
R10 10K
C10 10/16 (M)
R11 22K
R12 1W 100
LEVEL METER
IC 3
HD74LS145P
D16 TO D19
SLP236C
FUNCTION LED
R13 680
AC-M312/L MODEL ONLY
W403
W402
MATRIX 32
MATRIX 31
AC-M512, AC-A510-MODEL
AC-M312 MODEL
TO BASE PCB (J1)
W401
TO BASE PCB (J201)
W404
W405
L1
33μH
(K)
FUNCTION SW
PHONO
CD
TAPE
TUNER
TS15
TS14
TS13
TS16
※ X2
0.8MC
EXCLUDE
AC-M312
MODEL
TR2
2SC3399
D20
DS448
C21
3.3/50
C17 220P (K)
C18 220P (K)
R23 47K
R24 1K
TR5 TO TR8
2SC3330(S.T.U)
IC 4
LM6416E-1976
R54 270
D17
D19
D18
D16
D16 TO D19
SLP236C
R36
1M
R37 10K
TR4
2SC3330
(S.T.U)
R38 4.7K
R39 4.7K
R41 27K
TR3
2SC3400
TO DETECTOR PCB
AC-M512/L AC-A510/L ONLY
AC-M312
MODEL ONLY
TUNER
(MEMORY SCAN)
MONO
DOWN
UP
BAND
MEMO
AC-M312/L
AC-M512/L
AC-A510/L
ONLY
CH8/16
CH7/15
CH6/14
CH5/13
CH4/12
CH3/11
CH2/10
CH1/9
MATRIX SW

LCD PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
COM1	COM1	MEMO	LW	MW	1c	1b	2e	2d	2c	dpc	3e	3d	3c	dpb	4e	4d	4c	—	5e	5d	5c	TUNED	KHz	STEREO	—
COM2	—	FM	SW	TV	1b	2a	2f	2g	2b	3a	3f	3g	3b	4a	4f	4g	4d	5a	5f	5g	5b	MONO	MHz	DUAL	COM2
TC9302F PIN NO.	54	55	56	57	58	59	60	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	22

LCD PCB C1016A503D

CONTROL PCB C1016A504A

NOTE
UNLESS OTERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (J)

▬ = B(POWER SUPPLY) LINE
▬ = SIGNAL LINE

AC-M312/L, 512/L
AC-A510/L
CONTROL & LCD
SCHEMATIC DIAGRAM

NO. 7-5 870427A (A2)